



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/12, C07K 14/47, C12Q 1/68, G01N 33/68, C07K 16/18, A61K 31/70	A2	(11) International Publication Number: WO 99/64594 (43) International Publication Date: 16 December 1999 (16.12.99)
(21) International Application Number: PCT/US99/13181 (22) International Filing Date: 10 June 1999 (10.06.99) (30) Priority Data: 60/088,877 11 June 1998 (11.06.98) US Not furnished 9 June 1999 (09.06.99) US (71) Applicant: CHIRON CORPORATION [US/US]; 4560 Horton Street, Emeryville, CA 94608-2916 (US). (72) Inventors: ASTEL, Jon, H.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). CARROLL, Eddie, III; 4560 Horton Street, Emeryville, CA 94608-2916 (US). ENDEGE, Wilson, O.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). FORD, Donna, M.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). MONAHAN, John, E.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). SCHLEGEL, Robert; 4560 Horton Street, Emeryville, CA 94608-2916 (US). STEINMANN, Kathleen, E.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). ZHANG, Jimmy; 4560 Horton Street, Emeryville, CA 94608-2916 (US). (74) Agents: BAYNHAM, Robert, J.; Chiron Corporation, Intellectual Property-R338, P.O. Box 8097, Emeryville, CA 94662-8097 (US) et al.	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>	
(54) Title: GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER		
(57) Abstract This invention relates to novel human genes, to proteins expressed by the genes, and to variants of the proteins. The invention also relates to diagnostic and therapeutic agents related to the genes and proteins, including probes, antisense constructs, and antibodies. The invention further relates to polynucleotides differentially expressed in prostate cancer.		

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GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

FIELD OF THE INVENTION

This invention relates to the area of diagnosis, prognosis, and treatment
5 of cancer, tumor progression, hyperproliferative cell growth, and accompanying
physical and biological manifestations. More specifically, the invention includes
polynucleotides that are differentially regulated in prostatic disorders, such as metastatic
prostate cancer, localized prostate cancer, and benign prostate hyperplasia (BPH).

BACKGROUND OF THE INVENTION

10 Genes that are up- or down-regulated in cancer or tumor progression are
useful for therapeutic and diagnostic purposes. For example, detection of genes or gene
expression products up-regulated in hyperproliferative cells can be a predictive or
diagnostic marker of the onset or the progression of cancer. Early diagnosis can be
useful if the cancer, tumors, or hyperproliferating cells can be inhibited, removed, or
15 terminated to prevent metastasis or recurrence of cancerous growth. Such early warning
is of particular use to prostate cancer patients, where removal of the growth, tumor, or
cells is beneficial if the disease is confined to the prostate. There is a need in the art for
genes related to cancer and tumor progression.

SUMMARY OF THE INVENTION

20 The present invention provides methods and reagents for diagnosing
cancer, tumor progression, hyperproliferative cell growth, and accompanying biological
and physical manifestations. Reagents for such diagnostic kits include:

- (a) polynucleotides comprising a sequence capable of hybridizing to
one or more of SEQ ID NO:1-339 or complement thereof;
- 25 (b) polypeptides comprising the amino acid sequence encoded by
any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides comprising the amino
acid sequence of (b).

The methods of diagnosis of the present invention include both nucleic acid assays and immunoassays.

In another embodiment, the present invention provides both compositions and methods for treating or ameliorating cancer, tumor progression, hyperproliferative cell growth, and accompanying biological and physical manifestations. The compositions for treatment or amelioration include:

- (a) polynucleotides comprising the sequence capable of hybridizing to one or more of the sequences shown in SEQ ID NO:1-339 and complement thereof, including antisense, ribozyme and gene therapy nucleic acid constructs;
- 10 (b) polypeptides comprising the amino acid sequence encoded by any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides of polypeptides comprising the amino acid sequence (b).

Methods of treatment or amelioration include administering compositions of polynucleotides, polypeptides, antibodies, or combinations thereof and can be used

- 15 (a) to inhibit translation and/or transcription;
 - (b) to inhibit biological activity;
 - (c) as a vaccine antigen; and
 - (d) as an immune system inducer.
- 20 Such compositions can be administered systemically or locally to the desired site.

In one embodiment, the present invention provides a composition comprising an isolated polynucleotide selected from the group consisting of

- (a) any one of SEQ ID NOs:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
 - (b) a polynucleotide that encodes a variant of the polypeptide encoded by (a); and
 - (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of any one of the sequences of (a).
- 30

Preferably, the nucleic acid obtained from the biological material of part (b) above is genomic DNA or mRNA. The nucleic acid can also be cDNA complementary to the mRNA.

Another embodiment of the invention is the use of the isolated
5 polynucleotides or parts thereof as diagnostic probes or as primers.

In another embodiment, the present invention provides a composition comprising a polypeptide, wherein said polypeptide is selected from the group consisting of:

(a) a polypeptide encoded by any one of SEQ ID Nos:2, 5, 49, 50,
10 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;

(b) a polypeptide encoded by full-length mRNA or cDNA
corresponding to any one of SEQ ID NO:1-339; and

15 (c) a variant of the protein (a) or (b);

In certain preferred embodiments, the polynucleotide is operably linked to an expression control sequence. The invention further provides a host cell, including bacterial, yeast, insect and mammalian cells, transformed with the polynucleotide sequence. The invention also provides the full-length cDNA and the full length human
20 gene corresponding to the polynucleotide.

Protein and polypeptide compositions of the invention may further comprise a pharmaceutically acceptable carrier. Compositions comprising an antibody that specifically reacts with such protein or polypeptide are also provided by the present invention.

25 The invention further relates to a polypeptide or nucleic acid obtained by transforming a host cell with nucleic acid comprising at least one of SEQ ID NO:1-339, culturing the host cell, and recovering the replicated nucleic acid, the expressed RNA, and/or the expressed polypeptide.

Brief Description of the Figures

30 Figure 1 provides the open reading frame for clone SL 195.

Figure 2 provides the open reading frame for clone SL 197.

Figure 3 provides the immunohistochemistry staining results for clone SL 5 expression in a variety of normal and tumor tissues.

Detailed Description of the Invention

Genes that are up- or down-regulated in cancer or tumor progression are useful for therapeutic and diagnostic purposes. For example, a diagnostic assay to determine the stage of the disease also is useful in tailoring treatment of aggressive versus more mild cancer or tumor progression. The polynucleotide sequences and encoded polypeptides of the present invention are useful for these diagnostic or prognostic purposes.

Further, modulation of genes or gene expression products that are mis-regulated can be used to treat or ameliorate cancer, tumor progression, hyperproliferative cell growth, and the accompanying physical and biological manifestations. For example, the polynucleotide sequences provided herein as SEQ ID NO:1-339, can be used to construct the following polynucleotide and polypeptide compositions that are useful for treatment: antisense; ribozymes; antibodies; vaccine antigens; and immune system inducers, to induce dendritic cells, for example.

Identified herein are polynucleotide sequences that are upregulated in a cancer cell line, more specifically in a prostate cancer cell line. Thus, the present invention relates to methods and reagents for diagnosis, and to methods and compositions for treatment.

I. Use of Polynucleotides Having a Sequence of One or More of SEQ ID NO:1-339 to Obtain Full-Length cDNA and Full-Length Human Gene and Promoter Region

Full-length cDNA molecules comprising the disclosed sequences are obtained as follows. The polynucleotide or a portion thereof comprising at least 12, 15, 18, or 20 nucleotides is used as a hybridization probe to detect hybridizing members of a cDNA library using probe design methods, cloning methods, and clone selection techniques as described in U.S. Patent No. 5,654,173, "Secreted Proteins and Polynucleotides Encoding Them," incorporated herein by reference. Libraries of cDNA are made from selected tissues, such as normal or tumor tissue, or from tissues of a

mammal treated with, for example, a pharmaceutical agent. Preferably, the tissue is the same as that used to generate the polynucleotides, as both the polynucleotides and the cDNA represent expressed genes. Most preferably, the cDNA library is made from the biological material described herein in the Examples. Alternatively, many cDNA
5 libraries are available commercially. (Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989).

Members of the library that are larger than the polynucleotide, and preferably that contain the whole sequence of the native message, are obtained. In order
10 to confirm that the entire cDNA has been obtained, RNA protection experiments are performed as follows. Hybridization of a full-length cDNA to an mRNA will protect the RNA from RNase degradation. If the cDNA is not full length, then the portions of the mRNA that are not hybridized will be subject to RNase degradation. This is assayed, as is known in the art, by changes in electrophoretic mobility on
15 polyacrylamide gels, or by detection of released monoribonucleotides. Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989). In order to obtain additional sequences 5' to the end of a partial cDNA, 5' RACE (PCR Protocols: A Guide to Methods and Applications (Academic Press, Inc. 1990)) is performed.

20 Genomic DNA is isolated using polynucleotides in a manner similar to the isolation of full-length cDNAs. Briefly, the polynucleotides, or portions thereof, are used as probes to libraries of genomic DNA. Preferably, the library is obtained from the cell type that was used to generate the polynucleotides, but this is not essential. Most preferably, the genomic DNA is obtained from the biological material described
25 herein in the Examples. Such libraries may be in vectors suitable for carrying large segments of a genome, such as P1 or YAC, as described in detail in Sambrook *et al.*, 9.4-9.30. In addition, genomic sequences can be isolated from human BAC libraries, which are commercially available from Research Genetics, Inc., Huntsville, Alabama, USA, for example. In order to obtain additional 5' or 3' sequences, chromosome
30 walking is performed, as described in Sambrook *et al.*, such that adjacent and

overlapping fragments of genomic DNA are isolated. These are mapped and pieced together, as is known in the art, using restriction digestion enzymes and DNA ligase.

Using the polynucleotides sequences of the invention, corresponding full length genes can be isolated using both classical and PCR methods to construct and
5 probe cDNA libraries. Using either method, Northern blots, preferably, are performed on a number of cell types to determine which cell lines express the gene of interest at the highest rate.

Classical methods of constructing cDNA libraries are taught in Sambrook et al., supra. With these methods, cDNA can be produced from mRNA and
10 inserted into viral or expression vectors. Typically, libraries of mRNA comprising poly(A) tails can be produced with poly(T) primers. Similarly, cDNA libraries can be produced using the instant sequences as primers.

PCR methods are used to amplify the members of a cDNA library that comprise the desired insert. In this case, the desired insert will contain sequence from
15 the full length cDNA that corresponds to the instant ESTs. Such PCR methods include gene trapping and RACE methods. Gruber *et al.*, PCT WO 95/04745 and Gruber *et al.*, U.S. Pat. No. 5,500,356. Kits are commercially available to perform gene trapping experiments from, for example, Life Technologies, Gaithersburg, Maryland, USA. PCT Pub. No. WO 97/19110. (Apte and Siebert, *Biotechniques* 15:890-893, 1993; Edwards
20 *et al.*, *Nuc. Acids Res.* 19:5227-5232, 1991).

The promoter region of a gene generally is located 5' to the initiation site for RNA polymerase II, and can be obtained by performing 5' RACE using a primer from the coding region of the gene. Alternatively, the cDNA can be used as a probe for the genomic sequence, and the region 5' to the coding region is identified by "walking
25 up." If the gene is highly expressed or differentially expressed, the promoter from the gene may be of use in a regulatory construct for a heterologous gene.

Once the full-length cDNA or gene is obtained, DNA encoding variants can be prepared by site-directed mutagenesis, described in detail in Sambrook *et al.*, 15.3-15.63. The choice of codon or nucleotide to be replaced can be based on disclosure
30 herein on optional changes in amino acids to achieve altered protein structure and/or function.

As an alternative method to obtaining DNA or RNA from a biological material, nucleic acid comprising nucleotides having the sequence of one or more polynucleotides of the invention can be synthesized. Thus, the invention encompasses nucleic acid molecules ranging in length from 15 nucleotides (corresponding to at least 5 15 contiguous nucleotides of one of SEQ ID NO:1-339) up to a maximum length suitable for one or more biological manipulations, including replication and expression, of the nucleic acid molecule. The invention includes but is not limited to (a) nucleic acid having the size of a full gene, and comprising at least one of SEQ ID NO:1-339; (b) the nucleic acid of (a) also comprising at least one additional gene, operably linked 10 to permit expression of a fusion protein; (c) an expression vector comprising (a) or (b); (d) a plasmid comprising (a) or (b); and (e) a recombinant viral particle comprising (a) or (b).

The sequence of a nucleic acid comprising at least 15 contiguous nucleotides of at least any one of SEQ ID NO:1-339, preferably the entire sequence of 15 at least any one of SEQ ID NO:1-339, is not limited and can be any sequence of A, T, G, and/or C (for DNA) and A, U, G, and/or C (for RNA) or modified bases thereof, including inosine and pseudouridine. The choice of sequence will depend on the desired function and can be dictated by coding regions desired, the intron-like regions desired, and the regulatory regions desired.

20 Where the entire sequence of any one of SEQ ID NO:1-339 is within the nucleic acid, the nucleic acid obtained is referred to herein as a polynucleotide comprising the sequence of any one of SEQ ID NO:1-339.

II. Expression of Polypeptide Encoded by Full-Length cDNA or Full-Length Gene

The polynucleotide, the corresponding cDNA, or the full-length gene is 25 used to express the partial or complete gene product. Appropriate polynucleotide constructs are purified using standard recombinant DNA techniques as described in, for example, Sambrook *et al.*, (1989) *Molecular Cloning: A Laboratory Manual*, 2nd ed. (Cold Spring Harbor Press, Cold Spring Harbor, New York). The polypeptides encoded by the polynucleotides are expressed in any expression system, including, for example,

bacterial, yeast, insect, amphibian and mammalian systems. Suitable vectors and host cells are described in U.S. Patent No. 5,654,173.

Bacteria. Expression systems in bacteria include those described in Chang *et al.*, *Nature* (1978) 275:615, Goeddel *et al.*, *Nature* (1979) 281:544, Goeddel *et al.*, *Nucleic Acids Res.* (1980) 8:4057; EP 0 036,776, U.S. Patent No. 4,551,433, DeBoer *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1983) 80:21-25, and Siebenlist *et al.*, *Cell* (1980) 20:269.

Yeast. Expression systems in yeast include those described in Hinnen *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1978) 75:1929; Ito *et al.*, *J. Bacteriol.* (1983) 153:163; Kurtz *et al.*, *Mol. Cell. Biol.* (1986) 6:142; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Gleeson *et al.*, *J. Gen. Microbiol.* (1986) 132:3459, Roggenkamp *et al.*, *Mol. Gen. Genet.* (1986) 202:302; Das *et al.*, *J. Bacteriol.* (1984) 158:1165; De Louvencourt *et al.*, *J. Bacteriol.* (1983) 154:737, Van den Berg *et al.*, *Bio/Technology* (1990) 8:135; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Cregg *et al.*, *Mol. Cell. Biol.* (1985) 5:3376, U.S. Patent Nos. 4,837,148 and 4,929,555; Beach and Nurse, *Nature* (1981) 300:706; Davidow *et al.*, *Curr. Genet.* (1985) 10:380, Gaillardin *et al.*, *Curr. Genet.* (1985) 10:49, Ballance *et al.*, *Biochem. Biophys. Res. Commun.* (1983) 112:284-289; Tilburn *et al.*, *Gene* (1983) 26:205-221, Yelton *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1984) 81:1470-1474, Kelly and Hynes, *EMBO J.* (1985) 4:475479; EP 0 244,234, and WO 91/00357.

Insect Cells. Expression of heterologous genes in insects is accomplished as described in U.S. Patent No. 4,745,051, Friesen *et al.* (1986) "The Regulation of Baculovirus Gene Expression" in: *The Molecular Biology Of Baculoviruses* (W. Doerfler, ed.), EP 0 127,839, EP 0 155,476, and Vlak *et al.*, *J. Gen. Virol.* (1988) 69:765-776, Miller *et al.*, *Ann. Rev. Microbiol.* (1988) 42:177, Carbonell *et al.*, *Gene* (1988) 73:409, Maeda *et al.*, *Nature* (1985) 315:592-594, Lebacq-Verheyden *et al.*, *Mol. Cell. Biol.* (1988) 8:3129; Smith *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1985) 82:8404, Miyajima *et al.*, *Gene* (1987) 58:273; and Martin *et al.*, *DNA* (1988) 7:99. Numerous baculoviral strains and variants and corresponding permissive insect host cells from hosts are described in Luckow *et al.*, *Bio/Technology*

(1988) 6:47-55, Miller *et al.*, Generic Engineering (Setlow, J.K. *et al.* eds.), Vol. 8 (Plenum Publishing, 1986), pp. 277-279, and Maeda *et al.*, *Nature*, (1985) 315:592-594.

Mammalian Cells. Mammalian expression is accomplished as described in Dijkema *et al.*, *EMBO J.* (1985) 4:761, Gorman *et al.*, *Proc. Natl. Acad. Sci. (USA)* 5 (1982) 79:6777, Boshart *et al.*, *Cell* (1985) 41:521 and U.S. Patent No. 4,399,216. Other features of mammalian expression are facilitated as described in Ham and Wallace, *Meth. Enz.* (1979) 58:44, Barnes and Sato, *Anal. Biochem.* (1980) 102:255, U.S. Patent Nos. 4,767,704, 4,657,866, 4,927,762, 4,560,655, WO 90/103430, WO 87/00195, and U.S. RE 30,985.

10 Polynucleotide molecules comprising the polynucleotide sequence are propagated by placing the molecule in a vector. Viral and non-viral vectors are used, including plasmids. The choice of plasmid will depend on the type of cell in which propagation is desired and the purpose of propagation. Certain vectors are useful for amplifying and making large amounts of the desired DNA sequence. Other vectors are
15 suitable for expression in cells in culture. Still other vectors are suitable for transfer and expression in cells in a whole animal or person. The choice of appropriate vector is well within the skill of the art. Many such vectors are available commercially. The polynucleotide is inserted into a vector typically by means of DNA ligase attachment to a cleaved restriction enzyme site in the vector. Alternatively, the desired nucleotide
20 sequence may be inserted by homologous recombination in vivo. Typically this is accomplished by attaching regions of homology to the vector on the flanks of the desired nucleotide sequence. Regions of homology are added by ligation of oligonucleotides, or by polymerase chain reaction using primers comprising both the region of homology and a portion of the desired nucleotide sequence, for example.

25 Polynucleotides are linked to regulatory sequences as appropriate to obtain the desired expression properties. These may include promoters (attached either at the 5' end of the sense strand or at the 3' end of the antisense strand), enhancers, terminators, operators, repressors, and inducers. The promoters may be regulated or constitutive. In some situations it may be desirable to use conditionally active
30 promoters, such as tissue-specific or developmental stage-specific promoters. These are

linked to the desired nucleotide sequence using the techniques described above for linkage to vectors. Any techniques known in the art may be used.

When any of the above host cells, or other appropriate host cells or organisms, are used to replicate and/or express the polynucleotides or nucleic acids of the invention, the resulting replicated nucleic acid, RNA, expressed protein or polypeptide, is within the scope of the invention as a product of the host cell or organism. The product is recovered by any appropriate means known in the art.

Once the gene corresponding to the polypeptide is identified, its expression can be regulated in the cell to which the gene is native. For example, an endogenous gene of a cell can be regulated by an exogenous regulatory sequence as disclosed in U.S. Patent No. 5,641,670, "Protein Production and Protein Delivery."

Ribozymes

Trans-cleaving catalytic RNAs (ribozymes) are RNA molecules possessing endoribonuclease activity. Ribozymes are specifically designed for a particular target, and the target message must contain a specific nucleotide sequence. They are engineered to cleave any RNA species site-specifically in the background of cellular RNA. The cleavage event renders the mRNA unstable and prevents protein expression. Importantly, ribozymes can be used to inhibit expression of a gene of unknown function for the purpose of determining its function in an in vitro or in vivo context, by detecting the phenotypic effect.

One commonly used ribozyme motif is the hammerhead, for which the substrate sequence requirements are minimal. Design of the hammerhead ribozyme is disclosed in Usman *et al.*, *Current Opin. Struct. Biol.* (1996) 6:527-533. Usman also discusses the therapeutic uses of ribozymes. Ribozymes can also be prepared and used as described in Long *et al.*, *FASEB J.* (1993) 7:25; Symons, *Ann. Rev. Biochem.* (1992) 61:641; Perrotta *et al.*, *Biochem.* (1992) 31:16-17; Ojwang *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1992) 89:10802-10806; and U.S. Patent No. 5,254,678. Ribozyme cleavage of HIV-I RNA is described in U.S. Patent No. 5,144,019; methods of cleaving RNA using ribozymes is described in U.S. Patent No. 5,116,742; and methods for increasing the specificity of ribozymes are described in U.S. Patent No. 5,225,337 and Koizumi *et al.*,

Nucleic Acid Res. (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hammerhead structure are also described by Koizumi *et al.*, *Nucleic Acids Res.* (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hairpin structure are described by Chowrira and Burke, *Nucleic Acids Res.* (1992) 20:2835. Ribozymes can
5 also be made by rolling transcription as described in Daubendiek and Kool, *Nat. Biotechnol.* (1997) 15(3):273-277.

The hybridizing region of the ribozyme may be modified or may be prepared as a branched structure as described in Horn and Urdea, *Nucleic Acids Res.* (1989) 17:6959-67. The basic structure of the ribozymes may also be chemically
10 altered in ways familiar to those skilled in the art, and chemically synthesized ribozymes can be administered as synthetic oligonucleotide derivatives modified by monomeric units. In a therapeutic context, liposome mediated delivery of ribozymes improves cellular uptake, as described in Birikh *et al.*, *Eur. J. Biochem.* (1997) 245:1-16.

15 Therapeutic and functional genomic applications of ribozymes proceed beginning with knowledge of a portion of the coding sequence of the gene to be inhibited. Thus, for many genes, a polynucleotide sequence as disclosed herein provides adequate sequence for constructing an effective ribozyme. A target cleavage site is selected in the target sequence, and a ribozyme is constructed based on the 5' and
20 3' nucleotide sequences that flank the cleavage site. Retroviral vectors are engineered to express monomeric and multimeric hammerhead ribozymes targeting the mRNA of the target coding sequence. These monomeric and multimeric ribozymes are tested in vitro for an ability to cleave the target mRNA. A cell line is stably transduced with the retroviral vectors expressing the ribozymes, and the transduction is confirmed by
25 Northern blot analysis and reverse-transcription polymerase chain reaction (RT-PCR). The cells are screened for inactivation of the target mRNA by such indicators as reduction of expression of disease markers or reduction of the gene product of the target mRNA.

Antisense

Antisense nucleic acids are designed to specifically bind to RNA, resulting in the formation of RNA-DNA or RNA-RNA hybrids, with an arrest of DNA replication, reverse transcription or messenger RNA translation. Antisense polynucleotides based on a selected sequence can interfere with expression of the corresponding gene. Antisense polynucleotides are typically generated within the cell by expression from antisense constructs that contain the antisense EST strand as the transcribed strand. Antisense polynucleotides will bind and/or interfere with the translation of the corresponding mRNA. The expression products of control cells and cells treated with the antisense construct are compared to detect the protein product of the gene corresponding to the polynucleotide. The protein is isolated and identified using routine biochemical methods.

Antisense therapy for a variety of cancers is in clinical phase and has been discussed extensively in the literature. Reed reviewed antisense therapy directed at the Bcl-2 gene in tumors; gene transfer-mediated overexpression of Bcl-2 in tumor cell lines conferred resistance to many types of cancer drugs. (Reed, J.C., *N.C.I.* (1997) 89:988-990). The potential for clinical development of antisense inhibitors of *ras* is discussed by Cowser, L.M., *Anti-Cancer Drug Design* (1997) 12:359-371. Additional important antisense targets include leukemia (Geurtz, A.M., *Anti-Cancer Drug Design* (1997) 12:341-358); human C-ref kinase (Monia, B.P., *Anti-Cancer Drug Design* (1997) 12:327-339); and protein kinase C (McGraw *et al.*, *Anti-Cancer Drug Design* (1997) 12:315-326).

Given the extensive background literature and clinical experience in antisense therapy, one skilled in the art can use selected polynucleotides of the invention as additional potential therapeutics. The choice of polynucleotide can be narrowed by first testing them for binding to "hot spot" regions of the genome of cancerous cells. If a polynucleotide is identified as binding to a "hot spot", testing the polynucleotide as an antisense compound in the corresponding cancer cells clearly is warranted.

Ogunbiyi *et al.*, *Gastroenterology* (1997) 113(3):761-766 describe prognostic use of allelic loss in colon cancer; Barks *et al.*, *Genes, Chromosomes, and*

Cancer (1997) 19(4):278-285 describe increased chromosome copy number detected by FISH in malignant melanoma; Nishizake *et al.*, *Genes, Chromosomes, and Cancer* (1997) 19(4):267-272 describe genetic alterations in primary breast cancer and their metastases and direct comparison using modified comparative genome hybridization; and Elo *et al.*, *Cancer Research* (1997) 57(16):3356-3359 disclose that loss of heterozygosity at 16z24.1-q24.2 is significantly associated with metastatic and aggressive behavior of prostate cancer.

Dominant Negative Mutations

Dominant negative mutations are readily generated for corresponding proteins that are active as homomultimers. A mutant polypeptide will interact with wild-type polypeptides (made from the other allele) and form a non-functional multimer. Thus, a mutation is in a substrate-binding domain, a catalytic domain, or a cellular localization domain. Preferably, the mutant polypeptide will be overproduced. Point mutations are made that have such an effect. In addition, fusion of different polypeptides of various lengths to the terminus of a protein can yield dominant negative mutants. General strategies are available for making dominant negative mutants. See Herskowitz, *Nature* (1987) 329:219-222. Such a technique can be used for creating a loss of function mutation, which is useful for determining the function of a protein.

Identification of Secreted and Membrane-Bound Polypeptides

Both secreted and membrane-bound polypeptides of the present invention are of interest. For example, levels of secreted polypeptides can be assayed conveniently in body fluids, such as blood, urine, prostatic fluid and semen. Membrane-bound polypeptides are useful for constructing vaccine antigens or inducing an immune response. Such antigens would comprise all or part of the extracellular region of the membrane-bound polypeptides.

Because both secreted and membrane-bound polypeptides comprise a fragment of contiguous hydrophobic amino acids, hydrophobicity predicting algorithms can be used to identify such polypeptides.

A signal sequence is usually encoded by both secreted and membrane-bound polypeptide genes to direct a polypeptide to the surface of the cell. The signal

sequence usually comprises a stretch of hydrophobic residues. Such signal sequences can fold into helical structures.

Membrane-bound polypeptides typically comprise at least one transmembrane region that possesses a stretch of hydrophobic amino acids that can transverse the membrane. Some transmembrane regions also exhibit a helical structure.

Hydrophobic fragments within a polypeptide can be identified by using computer algorithms. Such algorithms include Hopp & Woods, Proc. Natl. Acad. Sci. USA 78: 3824-3828 (1981); Kyte & Doolittle, J. Mol. Biol. 157: 105-132 (1982); and RAOAR algorithm, Degli Esposti *et al.*, Eur. J. Biochem. 190: 207-219 (1990).

Another method of identifying secreted and membrane-bound polypeptides is to translate the present polynucleotides, SEQ ID NO:1-339, in all six frames and determine if at least 8 contiguous hydrophobic amino acids are present. Those translated polypeptides with at least 8; more typically, 10; even more typically, 12 contiguous hydrophobic amino acids are considered to be either a putative secreted or membrane bound polypeptide. Hydrophobic amino acids include alanine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, threonine, tryptophan, tyrosine, and valine.

Putative secreted and/or membrane-bound polypeptides are encoded by the sequences of the following clones: SL-5, SL-6, SL-9, SL-11, SL-13, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, and SL-177.

Construction of Polypeptides of the Invention and Variants Thereof

The polypeptides of the invention include those encoded by the disclosed polynucleotides. These polypeptides can also be encoded by nucleic acids that, by virtue of the degeneracy of the genetic code, are not identical in sequence to the disclosed polynucleotides. Thus, the invention includes within its scope nucleic acids comprising polynucleotides encoding a protein or polypeptide expressed by a polynucleotide having the sequence of any one of SEQ ID NO:1-339. Also within the scope of the invention are variants; variants of polypeptides include mutants, fragments, and fusions. Mutants can include amino acid substitutions, additions or deletions. The amino acid substitutions can be conservative amino acid substitutions or substitutions to

eliminate non-essential amino acids, such as to alter a glycosylation site, a phosphorylation site or an acetylation site, or to minimize misfolding by substitution or deletion of one or more cysteine residues that are not necessary for function. Conservative amino acid substitutions are those that preserve the general charge, hydrophobicity/hydrophilicity, and/or steric bulk of the amino acid substituted. For example, substitutions between the following groups are conservative: Gly/Ala, Val/Ile/Leu, Asp/Glu, Lys/Arg, Asn/Gln, Ser/Cys, Thr, and Phe/Trp/Tyr.

Cysteine-depleted muteins are variants within the scope of the invention. These variants can be constructed according to methods disclosed in U.S. Patent No. 4,959,314, "Cysteine-Depleted Muteins of Biologically Active Proteins." The patent discloses how to substitute other amino acids for cysteines, and how to determine biological activity and effect of the substitution. Such methods are suitable for proteins according to this invention that have cysteine residues suitable for such substitutions, for example to eliminate disulfide bond formation.

The protein variants described herein are encoded by polynucleotides that are within the scope of the invention. The genetic code can be used to select the appropriate codons to construct the corresponding variants.

The invention encompasses polynucleotide sequences having at least 65% sequence identity to any one of SEQ ID NOs:1-339 as determined by the Smith-Waterman homology search algorithm as implemented in MSPRCH program (Oxford Molecular) using an affine gap search with the following search parameters: gap open penalty of 12, and gap extension penalty of 1.

Use of the Polynucleotides as Probes, in Mapping, and in Tissue Profiling

Probes

Polynucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence of a polynucleotide of SEQ ID NO:1-339 are used for a variety of purposes, including identification of human chromosomes and determining transcription levels.

The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known

methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations which are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide should provide a detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with other unrelated sequences.

In a non-limiting example, commercial programs are available for identifying regions of chromosomes commonly associated with disease, such as cancer. Polynucleotides of the invention can be used to probe these regions. For example, if through profile searching a polynucleotide is identified as corresponding to a gene encoding a kinase, its ability to bind to a cancer-related chromosomal region will suggest its role as a kinase in one or more stages of tumor cell development/growth. Although some experimentation would be required to elucidate the role, the polynucleotide constitutes a new material for isolating a specific protein that has potential for developing a cancer diagnostic or therapeutic.

Nucleotide probes are used to detect expression of a gene corresponding to the polynucleotide. For example, in Northern blots, mRNA is separated electrophoretically and contacted with a probe. A probe is detected as hybridizing to an mRNA species of a particular size. The amount of hybridization is quantitated to determine relative amounts of expression, for example under a particular condition. Probes are also used to detect products of amplification by polymerase chain reaction. The products of the reaction are hybridized to the probe and hybrids are detected. Probes are used for in situ hybridization to cells to detect expression. Probes can also be used in vivo for diagnostic detection of hybridizing sequences. Probes are typically labeled with a radioactive isotope. Other types of detectable labels may be used such as chromophores, fluors, and enzymes.

Expression of specific mRNA can vary in different cell types and can be tissue specific. This variation of mRNA levels in different cell types can be exploited with nucleic acid probe assays to determine tissue types. For example, PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes substantially

identical or complementary to polynucleotides listed in the Sequence Listing can determine the presence or absence of cDNA or mRNA related to the polynucleotides of the invention.

Examples of a nucleotide hybridization assay are described in Urdea *et al.*, PCT WO92/02526 and Urdea *et al.*, U.S. Patent No. 5,124,246, both incorporated
5 herein by reference. The references describe an example of a sandwich nucleotide hybridization assay.

Alternatively, the Polymerase Chain Reaction (PCR) is another means for detecting small amounts of target nucleic acids, as described in Mullis *et al.*, *Meth. Enzymol.* (1987) 155:335-350; U.S. Patent No. 4,683,195; and U.S. Patent No. 4,683,202, all incorporated herein by reference. Two primer polynucleotides
10 nucleotides hybridize with the target nucleic acids and are used to prime the reaction. The primers may be composed of sequence within or 3' and 5' to the polynucleotides of the Sequence Listing. Alternatively, if the primers are 3' and 5' to these polynucleotides,
15 they need not hybridize to them or the complements. A thermostable polymerase creates copies of target nucleic acids from the primers using the original target nucleic acids as a template. After a large amount of target nucleic acids is generated by the polymerase, it is detected by methods such as Southern blots. When using the Southern blot method, the labeled probe will hybridize to a polynucleotide of the Sequence
20 Listing or complement.

Furthermore, mRNA or cDNA can be detected by traditional blotting techniques described in Sambrook *et al.*, "Molecular Cloning: A Laboratory Manual" (New York, Cold Spring Harbor Laboratory, 1989). mRNA or cDNA generated from
25 mRNA using a polymerase enzyme can be purified and separated using gel electrophoresis. The nucleic acids on the gel are then blotted onto a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe and then washed to remove any unhybridized probe. Next, the duplexes containing the labeled probe are detected. Typically, the probe is labeled with radioactivity.

Mapping

Polynucleotides of the present invention are used to identify a chromosome on which the corresponding gene resides. Using fluorescence in situ hybridization (FISH) on normal metaphase spreads, comparative genomic hybridization
5 allows total genome assessment of changes in relative copy number of DNA sequences. See Schwartz and Samad, *Current Opinions in Biotechnology* (1994) 8:70-74; Kallioniemi *et al.*, *Seminars in Cancer Biology* (1993) 4:41-46; Valdes and Tagle, *Methods in Molecular Biology* (1997) 68:1, Boultonwood, ed., Human Press, Totowa, NJ.

Preparations of human metaphase chromosomes are prepared using
10 standard cytogenetic techniques from human primary tissues or cell lines. Nucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence shown in the Sequence Listing are used to identify the corresponding chromosome. The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known
15 methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations that are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide-related gene provides a
20 detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with non-EST coding sequences.

Polynucleotides are mapped to particular chromosomes using, for example, radiation hybrids or chromosome-specific hybrid panels. See Leach *et al.*, *Advances in Genetics*, (1995) 33:63-99; Walter *et al.*, *Nature Genetics* (1994) 7:22-28;
25 Walter and Goodfellow, *Trends in Genetics* (1992) 9:352. Such mapping can be useful in identifying the function of the polynucleotide-related gene by its proximity to other genes with known function. Function can also be assigned to the related gene when particular syndromes or diseases map to the same chromosome.

Tissue Profiling

30 The polynucleotides of the present invention can be used to determine the tissue type from which a given sample is derived. For example, a metastatic lesion

is identified by its developmental organ or tissue source by identifying the expression of a particular marker of that organ or tissue. If a polynucleotide is expressed only in a specific tissue type, and a metastatic lesion is found to express that polynucleotide, then the developmental source of the lesion has been identified. Expression of a particular polynucleotide is assayed by detection of either the corresponding mRNA or the protein product. Immunological methods, such as antibody staining, are used to detect a particular protein product. Hybridization methods may be used to detect particular mRNA species, including but not limited to in situ hybridization and Northern blotting.

Use of Polymorphisms

10 A polynucleotide will be useful in forensics, genetic analysis, mapping, and diagnostic applications if the corresponding region of a gene is polymorphic in the human population. A particular polymorphic form of the polynucleotide may be used to either identify a sample as deriving from a suspect or rule out the possibility that the sample derives from the suspect. Any means for detecting a polymorphism in a gene are used, including but not limited to electrophoresis of protein polymorphic variants, differential sensitivity to restriction enzyme cleavage, and hybridization to an allele-specific probe.

Use of Polynucleotides to Raise Antibodies

20 Expression products of a polynucleotide, the corresponding mRNA or cDNA, or the corresponding complete gene are prepared and used for raising antibodies for experimental, diagnostic, and therapeutic purposes. The polynucleotide or related cDNA is expressed as described above, and antibodies are prepared. These antibodies are specific to an epitope on the polynucleotide-encoded polypeptide, and can precipitate or bind to the corresponding native protein in a cell or tissue preparation or in a cell-free extract of an in vitro expression system.

Immunogens for raising antibodies are prepared by mixing the polypeptides encoded by the polynucleotide of the present invention with adjuvants. Alternatively, polypeptides are made as fusion proteins to larger immunogenic proteins. Polypeptides are also covalently linked to other larger immunogenic proteins, such as keyhole limpet hemocyanin. Immunogens are typically administered intradermally,

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subcutaneously, or intramuscularly. Immunogens are administered to experimental animals such as rabbits, sheep, and mice, to generate antibodies. Optionally, the animal spleen cells are isolated and fused with myeloma cells to form hybridomas which secrete monoclonal antibodies. Such methods are well known in the art. According to
5 another method known in the art, the polynucleotide is administered directly, such as by intramuscular injection, and expressed in vivo. The expressed protein generates a variety of protein-specific immune responses, including production of antibodies, comparable to administration of the protein.

Preparations of polyclonal and monoclonal antibodies specific for
10 polynucleotide-encoded proteins and polypeptides are made using standard methods known in the art. The antibodies specifically bind to epitopes present in the polypeptides encoded by polynucleotides disclosed in the Sequence Listing. Typically, at least 6, 8, 10, or 12 contiguous amino acids are required to form an epitope. However, epitopes which involve non-contiguous amino acids may require more, for
15 example at least 15, 25, or 50 amino acids. A short sequence of a polynucleotide may then be unsuitable for use as an epitope to raise antibodies for identifying the corresponding novel protein, because of the potential for cross-reactivity with a known protein. However, the antibodies may be useful for other purposes, particularly if they identify common structural features of a known protein and a novel polypeptide
20 encoded by a polynucleotide of the invention.

Antibodies that specifically bind to human polynucleotide-encoded polypeptides should provide a detection signal at least 5-, 10-, or 20-fold higher than a detection signal provided with other proteins when used in Western blots or other immunochemical assays. Preferably, antibodies that specifically bind polypeptides do
25 not detect other proteins in immunochemical assays and can immunoprecipitate EST-encoded proteins from solution. For such immunoassays, any type of samples can be used, including tissue, organs, cells, urine, blood, prostatic fluid or semen.

Of interest are antibodies to the secreted polypeptides encoded by the present polynucleotide sequences, SEQ ID NO:1-339. Antibodies to secreted
30 polypeptides can be used to test body fluids, such as blood, urine, prostatic fluid and semen.

To test for the presence of serum antibodies to the polypeptide in a human population, human antibodies are purified by methods well known in the art. Preferably, the antibodies are affinity purified by passing antiserum over a column to which a protein, polypeptide, or fusion protein is bound. The bound antibodies can then
5 be eluted from the column, for example using a buffer with a high salt concentration.

In addition to the antibodies discussed above, genetically engineered antibody derivatives are made, such as single chain antibodies or humanized antibodies.

Antibodies to the polypeptides encoded by one or more of SEQ ID NO:1-339 also are contemplated for therapeutic compositions and uses. For example,
10 antibodies directed to membrane-bound polypeptides that are up-regulated in cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations can be constructed. Antibodies can provide a useful therapeutic in inhibiting cell growth or inducing an immune reaction to cancer, tumor, or hyperproliferating cells. Typically, such antibodies are directed the extracellular
15 regions of the membrane-bound polypeptide. The borders of such regions can be determined by identifying the location of the hydrophobic transmembrane fragment(s) in the encoded polypeptides of the present invention.

Exemplary antibodies were prepared using two sequences from clone SL-5: $\text{H}_2\text{N-CGPRLPSFPCPTHEPSTGQLSK-CONH}_2$ and $\text{H}_2\text{N-CKDSQGLSDFKR-}$
20 $\text{NSRTTTRRSYKCCONH}_2$. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry was performed on a variety of tumor tissues and corresponding normal tissue. The results are shown in Figure 3, and discussed in the Examples. These polypeptides are useful for detecting a higher level of expression of clone SL-5 in tumor tissues.

25 Use of Polynucleotides to Construct Arrays for Diagnostics

The present polynucleotide sequences and gene products are useful for determining the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations. Specifically, the polynucleotides and encoded polypeptides of the instant invention can be utilized to

determine the occurrence of prostatic disorders, such as BPH or localized prostate cancer.

A number of prostatic disorders exist, including adenocarcinoma, BPH, histologic prostate cancer, prostatic intraepithelial neoplasia, clinical prostate cancer, 5 incidental prostate cancer, and localized prostate cancer. BPH is a common prostatic disorder in men which becomes clinically manifest usually after age fifty. In BPH, hyperplastic growth of prostatic cells in the periurethral glandular tissue in the central zone of the prostate gland cause an enlarged prostate which can compress or elongate the urethra and produce symptoms of urethral obstruction that may progress to urinary 10 retention or to a constellation of symptoms known as prostatism. A host of physical manifestations can accompany prostatic disorders including: impotency, reduced urinary flow, hesitancy in initiating voiding, postvoid dribbling, a sensation of incomplete bladder emptying, and development of bladder or high urinary tract infections.

15 To determine the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, the levels of polynucleotides and/or encoded polypeptides of the present invention in a sample are compared to the levels in a normal control of body tissues, cells, organs, or fluids. The normal control can include a pool of cells from a particular organ or tissue 20 or tissues and/or cells from throughout the body. Either the immunoassays described above or the nucleic acid assays described below can be used for such measurements.

Any observed difference between the sample and normal control can indicate the occurrence of disease or disorder. Typically, if the levels of the polynucleotides and the encoded polypeptides of the present invention are higher than 25 those found in the normal control, the results indicate the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations.

In addition, the present polynucleotides can be useful to diagnose the severity as well as the occurrence of cancer, tumor progression, hyperproliferative 30 growth, and/or accompanying biological or physical manifestations, including prostatic disorders. For example, the greater the difference observed in the sample versus the

normal control of the present polynucleotides or encoded polypeptides, the greater the severity of the disorder, in particular, when higher levels as compared to a normal control are observed.

The present polynucleotides, as shown in SEQ ID NO:1-339, were
5 expressed at higher levels in a prostate cancer cell line versus a normal prostate epithelial cell line.

Polynucleotide arrays provide a high throughput technique that can assay a large number of polynucleotide sequences in a sample. This technology can be used as a diagnostic and as a tool to test for differential expression to determine function of
10 an encoded protein.

To create arrays, polynucleotide probes are spotted onto a substrate in a two-dimensional matrix or array. Samples of polynucleotides can be labeled and then hybridized to the probes. Double stranded polynucleotides, comprising the labeled sample polynucleotides bound to probe polynucleotides, can be detected once the
15 unbound portion of the sample is washed away.

The probe polynucleotides can be spotted on substrates including glass, nitrocellulose, etc. The probes can be bound to the substrate by either covalent bonds or by non-specific interactions, such as hydrophobic interactions. The sample polynucleotides can be labeled using radioactive labels, fluorophors, etc.

20 Techniques for constructing arrays and methods of using these arrays are described in EP No. 0 799 897; PCT No. WO 97/29212; PCT No. WO 97/27317; EP No. 0 785 280; PCT No. WO 97/02357; U.S. Pat. No. 5,593,839; U.S. Pat. No. 5,578,832; EP No. 0 728 520; U.S. Pat. No. 5,599,695; EP No. 0 721 016; U.S. Pat. No. 5,556,752; PCT No. WO 95/22058; and U.S. Pat. No. 5,631,734.

25 Further, arrays can be used to examine differential expression of genes and can be used to determine gene function. For example, arrays of the instant polynucleotide sequences can be used to determine if any of the EST sequences are differentially expressed between normal cells and cancer cells, for example. High expression of a particular message in a cancer cell, which is not observed in a
30 corresponding normal cell, can indicate a cancer specific protein.

Differential Expression

The present invention also provides a method to identify abnormal or diseased tissue in a human. For polynucleotides corresponding to profiles of protein families as described above, the choice of tissue may be dictated by the putative
5 biological function. The expression of a gene corresponding to a specific polynucleotide is compared between a first tissue that is suspected of being diseased and a second, normal tissue of the human. The normal tissue is any tissue of the human, especially those that express the polynucleotide-related gene including, but not limited to, brain, thymus, testis, heart, prostate, placenta, spleen, small intestine, skeletal
10 muscle, pancreas, and the mucosal lining of the colon.

The polynucleotide-related genes in the two tissues are compared by any means known in the art. For example, the two genes are sequenced, and the sequence of the gene in the tissue suspected of being diseased is compared with the gene sequence in the normal tissue. The polynucleotide-related genes, or portions thereof, in the two
15 tissues are amplified, for example using nucleotide primers based on the nucleotide sequence shown in the Sequence Listing, using the polymerase chain reaction. The amplified genes or portions of genes are hybridized to nucleotide probes selected from the same nucleotide sequence shown in the Sequence Listing. A difference in the nucleotide sequence of the polynucleotide-related gene in the tissue suspected of being
20 diseased compared with the normal nucleotide sequence suggests a role of the polynucleotide-encoded proteins in the disease, and provides a lead for preparing a therapeutic agent. The nucleotide probes are labeled by a variety of methods, such as radiolabeling, biotinylation, or labeling with fluorescent or chemiluminescent tags, and detected by standard methods known in the art.

25 Alternatively, polynucleotide-related mRNA in the two tissues is compared. PolyA⁺ RNA is isolated from the two tissues as is known in the art. For example, one of skill in the art can readily determine differences in the size or amount of polynucleotide-related mRNA transcripts between the two tissues using Northern blots and nucleotide probes selected from the nucleotide sequence shown in the
30 Sequence Listing. Increased or decreased expression of an polynucleotide-related mRNA in a tissue sample suspected of being diseased, compared with the expression of

the same polynucleotide-related mRNA in a normal tissue, suggests that the expressed protein has a role in the disease, and also provides a lead for preparing a therapeutic agent.

Any method for analyzing proteins is used to compare two polynucleotide-encoded proteins from matched samples. The sizes of the proteins in the two tissues are compared, for example, using antibodies of the present invention to detect polynucleotide-encoded proteins in Western blots of protein extracts from the two tissues. Other changes, such as expression levels and subcellular localization, can also be detected immunologically, using antibodies to the corresponding protein. A higher or lower level of polynucleotide-encoded protein expression in a tissue suspected of being diseased, compared with the same polynucleotide-encoded protein expression level in a normal tissue, is indicative that the expressed protein has a role in the disease, and provides another lead for preparing a therapeutic agent.

Similarly, comparison of polynucleotide gene sequences or of polynucleotide gene expression products, e.g., mRNA and protein, between a human tissue that is suspected of being diseased and a normal tissue of a human, are used to follow disease progression or remission in the human. Such comparisons of polynucleotide-related genes, mRNA, or protein are made as described above.

For example, increased or decreased expression of the polynucleotide-related gene in the tissue suspected of being neoplastic can indicate the presence of neoplastic cells in the tissue. The degree of increased expression of the polynucleotide gene in the neoplastic tissue relative to expression of the gene in normal tissue, or differences in the amount of increased expression of the polynucleotide gene in the neoplastic tissue over time, is used to assess the progression of the neoplasia in that tissue or to monitor the response of the neoplastic tissue to a therapeutic protocol over time. The expression pattern of any two cell types can be compared, such as low and high metastatic tumor cell lines, or cells from tissue which have and have not been exposed to a therapeutic agent.

Screening for Peptide Analogs and Antagonists

Polypeptides encoded by the instant polynucleotides and corresponding full length genes can be used to screen peptide libraries to identify binding partners, such as receptors, from among the encoded polypeptides.

5 Such binding partners can be useful in treating cancer, tumor progression, hyperproliferative cell growth, and/or accompanying biological or physical manifestations. For example, peptides or other compounds that are capable of binding or interacting with membrane-bound polypeptides encoded by one or more of SEQ ID NO:1-339, can be useful as a therapeutic. Also, peptides or other compounds capable of
10 altering the conformation of any of the encoded polypeptides by one or more of SEQ ID NO:1-339 can inhibit biological activity and be useful as a therapeutic.

A library of peptides may be synthesized following the methods disclosed in U.S. Pat. No. 5,010,175, and in PCT WO91/17823.

Peptide agonists or antagonists are screened using any available method,
15 such as signal transduction, antibody binding, receptor binding, mitogenic assays, chemotaxis assays, etc. The methods described herein are presently preferred. The assay conditions ideally should resemble the conditions under which the native activity is exhibited *in vivo*, that is, under physiologic pH, temperature, and ionic strength. Suitable agonists or antagonists will exhibit strong inhibition or enhancement of the
20 native activity at concentrations that do not cause toxic side effects in the subject. Agonists or antagonists that compete for binding to the native polypeptide may require concentrations equal to or greater than the native concentration, while inhibitors capable of binding irreversibly to the polypeptide may be added in concentrations on the order of the native concentration.

25 The end results of such screening and experimentation will be at least one novel polypeptide binding partner, such as a receptor, encoded by a cDNA polynucleotide or gene of the invention, and at least one peptide agonist or antagonist of the novel binding partner. Such agonists and antagonists can be used to modulate, enhance, or inhibit receptor function in cells to which the receptor is native, or in cells
30 that possess the receptor as a result of genetic engineering. Further, if the novel receptor shares biologically important characteristics with a known receptor,

information about agonist/antagonist binding may help in developing improved agonists/antagonists of the known receptor.

Therapeutics, whether polynucleotide or polypeptide or small molecule, can be tested, for example, in the mouse tumor assay described in Pei *et al.*, Mol. Endo. 11: 433-441 (1997).

Other models for testing polynucleotides, polypeptides, antibodies, or small molecules useful for treatment include: animal models and cell lines disclosed in Bosland, *Encyclopedia of Cancer*, Volume II, pages 1283 to 1296 (1997) by Academic Press. Other useful cell lines are described in Brothman, *Encyclopedia of Cancer*, Volume II, pages 1303 to 1313 (1997) by Academic Press

Pharmaceutical Compositions and Therapeutic Uses

Pharmaceutical compositions can comprise polypeptides, antibodies, or polynucleotides of the claimed invention. The pharmaceutical compositions will comprise a therapeutically effective amount of either polypeptides, antibodies, or polynucleotides of the claimed invention.

The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also include reduction in physical symptoms, such as decreased body temperature. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation can be determined by routine experimentation and is within the judgment of the clinician. Specifically, the compositions of the present invention can be used to treat, ameliorate, modulate, or prevent cancer, tumor progression, hyperproliferative cell growth and/or accompanying biological or physical manifestations, including prostatic disorders.

For purposes of the present invention, an effective dose will be from about 0.01 mg/kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the polynucleotide, polypeptide or antibody compositions in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which may be administered without undue toxicity. Suitable carriers may be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art.

Pharmaceutically acceptable salts can be used therein, for example, mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough discussion of pharmaceutically acceptable excipients is available in *Remington's Pharmaceutical Sciences* (Mack Pub. Co., N.J. 1991).

Pharmaceutically acceptable carriers in therapeutic compositions may contain liquids such as water, saline, glycerol and ethanol. Additionally, auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, may be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection may also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier.

Delivery Methods

Once formulated, the polynucleotide compositions of the invention can be (1) administered directly to the subject; (2) delivered ex vivo, to cells derived from the subject; or (3) delivered in vitro for expression of recombinant proteins.

Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, intravenously or intramuscularly, or delivered to the interstitial space of a tissue. The compositions can also be administered into a tumor or lesion. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal applications, needles, and gene guns or hyposprays. Dosage treatment may be a single dose schedule or a multiple dose schedule.

Methods for the ex vivo delivery and reimplantation of transformed cells into a subject are known in the art and described in e.g., International Publication No. WO 93/14778. Examples of cells useful in ex vivo applications include, for example, stem cells, particularly hematopoietic, lymph cells, macrophages, dendritic cells, or tumor cells.

Generally, delivery of nucleic acids for both ex vivo and in vitro applications can be accomplished by, for example, dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

If a polynucleotide-related gene correlates with a proliferative disorder, such as neoplasia, dysplasia, and hyperplasia, the disorder may be amenable to treatment by administration of a therapeutic agent based on the polynucleotide or corresponding polypeptide.

Preparation of antisense polypeptides is discussed above. Neoplasias that are treated with the antisense composition include, but are not limited to, cervical cancers, melanomas, colorectal adenocarcinomas, Wilms' tumor, retinoblastoma, sarcomas, myosarcomas, lung carcinomas, leukemias, such as chronic myelogenous leukemia, promyelocytic leukemia, monocytic leukemia, and myeloid leukemia, and lymphomas, such as histiocytic lymphoma. Proliferative disorders that are treated with the therapeutic composition include disorders such as anhydric hereditary ectodermal dysplasia, congenital alveolar dysplasia, epithelial dysplasia of the cervix, fibrous dysplasia of bone, and mammary dysplasia. Hyperplasias, for example, endometrial, adrenal, breast, prostate, or thyroid hyperplasias or pseudoepitheliomatous hyperplasia

of the skin, are treated with antisense therapeutic compositions. Even in disorders in which mutations in the corresponding gene are not implicated, downregulation or inhibition of gene expression can have therapeutic application. For example, decreasing gene expression can help to suppress tumors in which enhanced expression of the gene is implicated.

Both the dose of the antisense composition and the means of administration are determined based on the specific qualities of the therapeutic composition, the condition, age, and weight of the patient, the progression of the disease, and other relevant factors. Administration of the therapeutic antisense agents of the invention includes local or systemic administration, including injection, oral administration, particle gun or catheterized administration, and topical administration. Preferably, the therapeutic antisense composition contains an expression construct comprising a promoter and a polynucleotide segment of at least 12, 22, 25, 30, or 35 contiguous nucleotides of the antisense strand. Within the expression construct, the polynucleotide segment is located downstream from the promoter, and transcription of the polynucleotide segment initiates at the promoter.

Various methods are used to administer the therapeutic composition directly to a specific site in the body. For example, a small metastatic lesion is located and the therapeutic composition injected several times in several different locations within the body of tumor. Alternatively, arteries which serve a tumor are identified, and the therapeutic composition injected into such an artery, in order to deliver the composition directly into the tumor. A tumor that has a necrotic center is aspirated and the composition injected directly into the now empty center of the tumor. The antisense composition is directly administered to the surface of the tumor, for example, by topical application of the composition. X-ray imaging is used to assist in certain of the above delivery methods.

Receptor-mediated targeted delivery of therapeutic compositions containing an antisense polynucleotide, subgenomic polynucleotides, or antibodies to specific tissues is also used. Receptor-mediated DNA delivery techniques are described in, for example, Findeis *et al.*, *Trends in Biotechnol.* (1993) 11:202-205; Chiou *et al.*, (1994) *Gene Therapeutics: Methods And Applications Of Direct Gene Transfer* (J.A.

Wolff, ed.); Wu & Wu, *J. Biol. Chem.* (1988) 263:621-24; Wu *et al.*, *J. Biol. Chem.* (1994) 269:542-46; Zenke *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1990) 87:3655-59; Wu *et al.*, *J. Biol. Chem.* (1991) 266:339-42. Preferably, receptor-mediated targeted delivery of therapeutic compositions containing antibodies of the invention is used to deliver the antibodies to specific tissue.

Therapeutic compositions containing antisense subgenomic polynucleotides are administered in a range of about 100 ng to about 200 mg of polynucleotides for local administration in a gene therapy protocol. Concentration ranges of about 500 ng to about 50 mg, about 1 μ g to about 2 mg, about 5 μ g to about 500 μ g, and about 20 μ g to about 100 μ g of polynucleotides can also be used during a gene therapy protocol. Factors such as method of action and efficacy of transformation and expression are considerations which will affect the dosage required for ultimate efficacy of the antisense subgenomic polynucleotides. Where greater expression is desired over a larger area of tissue, larger amounts of EST antisense subgenomic polynucleotides or the same amounts readministered in a successive protocol of administrations, or several administrations to different adjacent or close tissue portions of, for example, a tumor site, may be required to effect a positive therapeutic outcome. In all cases, routine experimentation in clinical trials will determine specific ranges for optimal therapeutic effect. A more complete description of gene therapy vectors, especially retroviral vectors, is contained in U.S. Serial No. 08/869,309, which is expressly incorporated herein, and in section G below.

For genes encoding polypeptides or proteins with anti-inflammatory activity, suitable use, doses, and administration are described in U.S. Patent No. 5,654,173, incorporated herein by reference. Therapeutic agents also include antibodies to proteins and polypeptides, as described in U.S. Patent No. 5,654,173.

Gene Therapy

The therapeutic polynucleotides and polypeptides of the present invention may be utilized in gene delivery vehicles. The gene delivery vehicle may be of viral or non-viral origin (see generally, Jolly, *Cancer Gene Therapy* (1994) 1:51-64; Kimura, *Human Gene Therapy* (1994) 5:845-852; Connelly, *Human Gene Therapy*

(1995) 1:185-193; and Kaplitt, *Nature Genetics* (1994) 6:148-153). Gene therapy vehicles for delivery of constructs including a coding sequence of a therapeutic of the invention can be administered either locally or systemically. These constructs can utilize viral or non-viral vector approaches. Expression of such coding sequences can
5 be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence can be either constitutive or regulated.

The present invention can employ recombinant retroviruses which are constructed to carry or express a selected nucleic acid molecule of interest. Retrovirus vectors that can be employed include those described in EP 0 415 731; WO 90/07936;
10 WO 94/03622; WO 93/25698; WO 93/25234; U.S. Patent No. 5, 219,740; WO 93/11230; WO 93/10218; Vile and Hart, *Cancer Res.* (1993) 53:3860-3864; Vile and Hart, *Cancer Res.* (1993) 53:962-967; Ram et al., *Cancer Res.* (1993) 53:83-88; Takamiya et al., *J. Neurosci. Res.* (1992) 33:493-503; Baba et al., *J. Neurosurg.* (1993) 79:729-735; U.S. Patent no. 4,777,127; GB Patent No. 2,200,651; and EP 0 345 242.
15 Preferred recombinant retroviruses include those described in WO 91/02805.

Packaging cell lines suitable for use with the above-described retroviral vector constructs may be readily prepared (see PCT publications WO 95/30763 and WO 92/05266), and used to create producer cell lines (also termed vector cell lines) for the production of recombinant vector particles. Within particularly preferred embodiments
20 of the invention, packaging cell lines are made from human (such as HT1080 cells) or mink parent cell lines, thereby allowing production of recombinant retroviruses that can survive inactivation in human serum.

The present invention also employs alphavirus-based vectors that can function as gene delivery vehicles. Such vectors can be constructed from a wide variety
25 of alphaviruses, including, for example, Sindbis virus vectors, Semliki forest virus (ATCC VR-67; ATCC VR-1247), Ross River virus (ATCC VR-373; ATCC VR-1246) and Venezuelan equine encephalitis virus (ATCC VR-923; ATCC VR-1250; ATCC VR 1249; ATCC VR-532). Representative examples of such vector systems include those described in U.S. Patent Nos. 5,091,309; 5,217,879; and 5,185,440; and PCT
30 Publication Nos. WO 92/10578; WO 94/21792; WO 95/27069; WO 95/27044; and WO 95/07994.

Gene delivery vehicles of the present invention can also employ parvovirus such as adeno-associated virus (AAV) vectors. Representative examples include the AAV vectors disclosed by Srivastava in WO 93/09239, Samulski et al., *J. Vir.* (1989) 63:3822-3828; Mendelson et al., *Virol.* (1988) 166:154-165; and Flotte et al., *PNAS* (1993) 90:10613-10617.

Representative examples of adenoviral vectors include those described by Berkner, *Biotechniques* (1988) 6:616-627; Rosenfeld et al., *Science* (1991) 252:431-434; WO 93/19191; Kolls et al., *PNAS* (1994) 91:215-219; Kass-Eisler et al., *PNAS* (1993) 90:11498-11502; Guzman et al., *Circulation* (1993) 88:2838-2848; Guzman et al., *Cir. Res.* (1993) 73:1202-1207; Zabner et al., *Cell* (1993) 75:207-216; Li et al., *Hum. Gene Ther.* (1993) 4:403-409; Cailaud et al., *Eur. J. Neurosci.* (1993) 5:1287-1291; Vincent et al., *Nat. Genet.* (1993) 5:130-134; Jaffe et al., *Nat. Genet.* (1992) 1:372-378; and Levrero et al., *Gene* (1991) 101:195-202. Exemplary adenoviral gene therapy vectors employable in this invention also include those described in WO 94/12649, WO 93/03769; WO 93/19191; WO 94/28938; WO 95/11984 and WO 95/00655. Administration of DNA linked to killed adenovirus as described in Curiel, *Hum. Gene Ther.* (1992) 3:147-154 may be employed.

Other gene delivery vehicles and methods may be employed, including polycationic condensed DNA linked or unlinked to killed adenovirus alone, for example Curiel, *Hum. Gene Ther.* (1992) 3:147-154; ligand linked DNA, for example see Wu, *J. Biol. Chem.* (1989) 264:16985-16987; eukaryotic cell delivery vehicles cells, for example see U.S. Serial No. 08/240,030, filed May 9, 1994, and U.S. Serial No. 08/404,796; deposition of photopolymerized hydrogel materials; hand-held gene transfer particle gun, as described in U.S. Patent No. 5,149,655; ionizing radiation as described in U.S. Patent No. 5,206,152 and in WO92/11033; nucleic charge neutralization or fusion with cell membranes. Additional approaches are described in Philip, *Mol. Cell Biol.* (1994) 14:2411-2418, and in Woffendin, *Proc. Natl. Acad. Sci.* (1994) 91:1581-1585.

Naked DNA may also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and U.S. Patent No. 5,580,859.

Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al.*, *Proc. Natl. Acad. Sci. USA* (1994) 91(24):11581-11585.

Computer-Related Embodiments

5 In general, a library of polynucleotides is a collection of sequence information, which information is provided in either biochemical form (*e.g.*, as a collection of polynucleotide molecules), or in electronic form (*e.g.*, as a collection of polynucleotide sequences stored in a computer-readable form, as in a computer system and/or as part of a computer program). The sequence information of the
10 polynucleotides can be used in a variety of ways, *e.g.*, as a resource for gene discovery, as a representation of sequences expressed in a selected cell type (*e.g.*, cell type markers), and/or as markers of a given disease or disease state. In general, a disease marker is a representation of a gene product that is present in all cells affected by disease either at an increased or decreased level relative to a normal cell (*e.g.*, a cell of
15 the same or similar type that is not substantially affected by disease).

The nucleotide sequence information of the library can be embodied in any suitable form, *e.g.*, electronic or biochemical forms. For example, a library of sequence information embodied in electronic form comprises an accessible computer data file (or, in biochemical form, a collection of nucleic acid molecules) that contains
20 the representative nucleotide sequences of genes that are differentially expressed (*e.g.*, overexpressed or underexpressed) as between, for example, a cancerous cell and a normal cell. Biochemical embodiments of the library include a collection of nucleic acids that have the sequences of the genes in the library, where the nucleic acids can correspond to the entire gene in the library or to a fragment thereof, as described in
25 greater detail below.

The polynucleotide libraries of the subject invention generally comprise sequence information of a plurality of polynucleotide sequences, where at least one of the polynucleotides has a sequence of any of SEQ ID NOs:1-339. By plurality is meant at least 2, usually at least 3 and can include up to all of SEQ ID NOs:1-339. The length
30 and number of polynucleotides in the library will vary with the nature of the library,

e.g., if the library is an oligonucleotide array, a cDNA array, a computer database of the sequence information, etc.

Where the library is an electronic library, the nucleic acid sequence information can be present in a variety of media. "Media" refers to a manufacture, other than an isolated nucleic acid molecule, that contains the sequence information of the present invention. Such a manufacture provides the genome sequence or a subset thereof in a form that can be examined by means not directly applicable to the sequence as it exists in a nucleic acid. For example, the nucleotide sequence of the present invention, *e.g.*, the nucleic acid sequences of any of the polynucleotides of SEQ ID NOs:1-339, can be recorded on computer readable media, *e.g.*, any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as a floppy disc, a hard disc storage medium, and a magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. One of skill in the art can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising a recording of the present sequence information. "Recorded" refers to a process for storing information on computer readable medium, using any such methods as known in the art. Any convenient data storage structure can be chosen, based on the means used to access the stored information. A variety of data processor programs and formats can be used for storage, *e.g.*, word processing text file, database format, *etc.* In addition to the sequence information, electronic versions of the libraries of the invention can be provided in conjunction or connection with other computer-readable information and/or other types of computer-readable files (*e.g.*, searchable files, executable files, *etc.*, including, but not limited to, for example, search program software, *etc.*).

By providing the nucleotide sequence in computer readable form, the information can be accessed for a variety of purposes. Computer software to access sequence information is publicly available. For example, the BLAST (Altschul et al., *supra.*) and BLAZE (Brutlag et al. *Comp. Chem.* (1993) 17:203) search algorithms on a Sybase system can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs from other organisms.

As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention. The data storage means can comprise any manufacture comprising a recording of the present sequence information as described above, or a memory access means that can access such a manufacture.

10 "Search means" refers to one or more programs implemented on the computer-based system, to compare a target sequence or target structural motif, or expression levels of a polynucleotide in a sample, with the stored sequence information. Search means can be used to identify fragments or regions of the genome that match a particular target sequence or target motif. A variety of known algorithms are publicly known and commercially available, *e.g.*, MacPattern (EMBL), BLASTN and BLASTX (NCBI). A "target sequence" can be any polynucleotide or amino acid sequence of six or more contiguous nucleotides or two or more amino acids, preferably from about 10 to 100 amino acids or from about 30 to 300 nt. A variety of comparing means can be used to accomplish comparison of sequence information from a sample (*e.g.*, to analyze target sequences, target motifs, or relative expression levels) with the data storage means. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer based systems of the present invention to accomplish comparison of target sequences and motifs. Computer programs to analyze expression levels in a sample and in controls are also known in the art.

A "target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration that is formed upon the folding of the target motif, or on consensus sequences of regulatory or active sites. There are a variety of target motifs known in the art. Protein target motifs include, but are not limited to, enzyme active sites and signal sequences. Nucleic acid target motifs include, but are

not limited to, hairpin structures, promoter sequences and other expression elements such as binding sites for transcription factors.

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. One format for an output means ranks the relative expression levels of different polynucleotides. Such presentation provides a skilled artisan with a ranking of relative expression levels to determine a gene expression profile..

As discussed above, the "library" of the invention also encompasses biochemical libraries of the polynucleotides of SEQ ID NOs:1-339, *e.g.*, collections of nucleic acids representing the provided polynucleotides. The biochemical libraries can take a variety of forms, *e.g.*, a solution of cDNAs, a pattern of probe nucleic acids stably associated with a surface of a solid support (*i.e.*, an array) and the like. Of particular interest are nucleic acid arrays in which one or more of SEQ ID NOs:1-339 is represented on the array. By array is meant a an article of manufacture that has at least a substrate with at least two distinct nucleic acid targets on one of its surfaces, where the number of distinct nucleic acids can be considerably higher, typically being at least 10 nt, usually at least 20 nt and often at least 25 nt. A variety of different array formats have been developed and are known to those of skill in the art. The arrays of the subject invention find use in a variety of applications, including gene expression analysis, drug screening, mutation analysis and the like, as disclosed in the above-listed exemplary patent documents.

In addition to the above nucleic acid libraries, analogous libraries of polypeptides are also provided, where the where the polypeptides of the library will represent at least a portion of the polypeptides encoded by SEQ ID NOs:1-339.

The present invention will now be illustrated by reference to the following examples which set forth particularly advantageous embodiments. However, it should be noted that these embodiments are illustrative and are not to be construed as restricting the invention in any way.

EXAMPLES

EXAMPLE 1

ISOLATION OF THE POLYNUCLEOTIDES

cDNA libraries were prepared from PrEC, normal human prostate
5 epithelial cells, and LNCaP, a cell line derived from human lymph node metastasized
prostate cancer. PrEC cells are available from Clonetics, San Diego, California, U.S.A.
LNCaP cells are available from the ATCC, Manassas, Virginia, U.S.A.

Using a PCR technique and reagents available from Clontech, Palo Alto,
California, USA (CLONTECH PCR-Select™), mRNA up-regulated in LNCaP was
10 captured and amplified. The captured polynucleotide inserts were inserted in the
pCR2.1 vector, available from Invitrogen, Carlsbad, California, U.S.A. The vectors
with the inserts were transformed into *E. coli* cells.

EXAMPLE 2

CONFIRMATION OF DIFFERENTIAL DISPLAY

15 Ten clones were chosen at random, and up-regulation of the sequences of
these clone inserts in LNCaP versus PrEC cells was confirmed by Northern blot. Dot
blots were performed on 168 clones and up-regulation was confirmed.

Further, sequencing of the clones showed that prostate specific antigen
(PSA) and prostate specific membrane antigen (PSMA) sequences were isolated by the
20 process described in Example 1. A good correlation between increased serum PSA
levels and prostate tumors has been observed. PSMA, a cell surface antigen, is another
observed marker for prostate cancer. See Bosland, Encyclopedia of Cancer, Volume II,
pages 1283-1296 (1997), Academic Press. Thus, the data confirm that up-regulated
mRNA characteristic of gene expression in prostate cancer was cloned by the method of
25 Example 1.

EXAMPLE 3

POLYNUCLEOTIDE SEQUENCES

The sequence results are shown in SEQ ID NO:1-339. For the sequencing experiments, each clone was named SL-1 to SL-209. Inserts from some of the clones were sequenced more than once. Each sequence was designated a unique combination of two names. This unique combination is shown in Table 1 in columns 2 and 3, denoted as "Sequence Name" and "Other Seq Name."

Table 1 indicates all the sequences that correspond to each clone. Thus, all the sequences corresponding to clone SL-3, for example, are grouped together in Table 1.

Clones also were assigned cluster numbers. See column 4 of Table 1. Clones with the same cluster number generally comprise sequence derived from the same mRNA transcripts.

The last column of Table 1 indicates the nearest neighbor as determined by an alignment to sequences in a publicly available database.

A consensus for the sequence of each clone can be constructed by aligning the corresponding sequences or reverse complements thereof. Table 1 lists the names of all the sequences that correspond to each clone, and Table 2 shows the specific sequence that corresponds to each unique combination of Sequence Name and/or "Other Seq. Name."

The entire insert of some clones may not be represented by the sequences presented in Table 2. For example, the 5' and 3' ends of a clone insert may have been sequenced, but the sequences do not overlap. Additional sequence corresponding to the clone insert can be isolated and determined by constructing probes or primers from the sequences presented in Table 2 and a library of mRNA or cDNA from a prostate cell or prostate cancer cell line using the methods described above.

EXAMPLE 4

RESULTS OF PUBLIC DATABASE SEARCH

Both the nucleotide sequence and translations of masked sequences shown in the Sequence Listing were aligned with individual sequences that were publicly available. Similarity with individual sequences is used to determine the activity of the polypeptides encoded by genes corresponding to the sequences referred to in Table 2.

The sequences in SEQ ID NO:1-333 first were masked to remove the pCR2.1 vector sequences. Masking was performed by aligning the pCR2.1 sequences with each of SEQ ID NO:1-333 using the BLASTN program. Any sequence that produced an alignment with a score of less than 0.1 was masked.

A BLASTN vs. Genbank search was performed using the masked sequences with search parameters of greater than 99% overlap, 99% identity, and a p value of less than 1×10^{-40} and this resulted in discard of sequences. Sequences from this search also were discarded if the inclusive parameters were met, but the sequence was ribosomal or vector-derived.

The resulting sequences from the previous search were classified into three groups (1, 2 and 3 below) and searched in a BLASTX vs. NRP (non-redundant proteins) database search: (1) unknown (no hits in the Genbank search), (2) weak similarity (greater than 45% identity and p value of less than 1×10^{-5}), and (3) high similarity (greater than 60% overlap, greater than 80% identity, and p value less than 1×10^{-5}). This search resulted in discard of sequences as having greater than 99% overlap, greater than 99% identity, and p value of less than 1×10^{-40} .

The remaining sequences were classified as unknown (no hits), weak similarity, and high similarity (parameters as above). Two searches were performed on this set of sequences. First, a BLAST vs. EST database search resulted in discard of sequences with greater than 99% overlap, greater than 99% similarity and a p value of less than 1×10^{-40} ; sequences with a p value of less than 1×10^{-65} when compared to a database sequence of human origin were also excluded. Second, a BLASTN vs. Patent

GeneSeq database resulted in discard of sequences with greater than 99% identity; p value less than 1×10^{-40} ; greater than 99% overlap.

The masked sequences were translated in all six reading frames to determine the best alignment with the individual sequences. These amino acid sequences and nucleotide sequences are referred, generally, as query sequences, which are aligned with the individual sequences.

Query and individual sequences were aligned using the BLAST programs, available over the world wide web.

Table 2 shows the results of the alignments. Table 2 refers to each sequence by its Sequence Name and/or "Other Seq. Name" and includes the accession numbers and descriptions of nearest neighbors from the Genbank and Non-Redundant Protein searches.

The activity of the polypeptide encoded by the sequences referred to in Table 2 is expected to be the same or similar to the nearest neighbor reported in Table 2. The accession number of the nearest neighbor is reported, providing a reference to the activities exhibited by the nearest neighbor. The search program and database used for the alignment also are indicated as well as a calculation of the p value.

Full length sequences or fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full length sequence corresponding to sequence referred to in Table 2. Although full length sequences can be obtained from the cell lines described above, the nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences of those referred to in Table 2.

The sequences referred to in Table 2 and the translations thereof may be human homologs of known genes of other species or novel allelic variants of known human genes. In such cases, these new human sequences may be suitable as diagnostics, prognostics, or therapeutics. As diagnostics, the human sequences exhibit greater specificity in detecting and differentiating human cell lines and types than homologs of other species. The human polypeptides are less likely to be immunogenic when administered to humans than homologs from other species. Further, on

administration to humans, the encoded polypeptides can show greater specificity or can be better regulated by other human proteins than are homologs from other species.

In the preferred embodiments of the invention, the sequences shown in SEQ ID NO:1-339 consisting of the unmasked regions should be considered as the source of probes and primers, as these sequences are most representative of the distinguishing portions of these polynucleotides.

Generally, the masking itself does not influence the search results as shown in Table 2, except to eliminate multiple "hits" based on similarity to repetitive regions common to more than one polypeptide.

10

EXAMPLE 5

ANALYSIS OF CLONES SL-5, SL-9, SL-68, AND SL-173

Clone SL-5 (SEQ ID NO:14 and 334)

By Northern Blot, a 4.1 kb band was observed in expressed in normal prostate, testis, and lymphoblastic leukemia. It was also expressed in the cell lines LNCaP, and MDA PCa 2A and 2B (metastatic prostate cells into bone, androgen sensitive). Additional sequence corresponding to SEQ ID NO:14 is disclosed in SEQ ID NO:334.

Expression of SL-5 was investigated in normal and tumor tissues using immunohistochemistry. Antibody was prepared using two sequences from clone SL-5: H₂N-CGPRLPSFPCPTHEPSTGQLSK-CONH₂ and H₂N-CKDSQGLSDFKRNSRTTTR-RSYKCCONH₂. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry (IHC) was performed on a variety of tumor tissues and corresponding normal tissue. The methods used were those described for the Manual IHC Protocol using BioGenex Reagents and Zymed AEC Solution, as known in the art. As shown in Figure 3, SL-5 was detected in the following tumor tissue: adrenal, ovary, breast, colon, prostate, uterus, cervix, kidney, pancreas, liver, stomach, lymphoma, seminoma, thyroid, melanoma, basal cell carcinoma, and other tumor tissues. Where comparative normal tissue was available, expression in the

corresponding normal tissue was lower than in the tumor tissue. Thus, SL-5 is a useful marker for cancer tissue including prostate.

Clone SL-9 (SEQ ID NO:18)

By Northern Blot, sequences from SL-9 were specifically expressed in
5 normal spleen and normal peripheral blood leukocyte. Expression of the SL-9 sequences was observed also in promyelocytic leukemia HL-60, chronic myelogenous leukemia K-562, lymphoblastic leukemia MOLT-4, Burkitt's lymphoma, and Raji cancer cell lines by Northern Blot.

Clone SL-173 (SEQ ID NO:153 and 154)

10 By Northern Blot, SL173 was found in every cancer cell line tested. Sequence from SL-173 has similarity to and may be a human homologue of the rat tumor transforming gene, which was found in the pituitary and described in Pei *et al.*, Mol. Endo. 11: 433-441 (1997) and Pei, J. Biol. Chem. 273(9): 5219-5225 (1998). When the rat tumor transforming gene was injected in NIH3T3 cells, the cells became
15 transformed and were able to form a tumor when injected into mice. (Pei *et al.*, Mol. Endo. supra).

Clone SL-68 (SEQ ID NO:218 and 219)

Two transcripts, 2.6kb and 4.3kb, were observed in normal spleen, thymus and peripheral blood leukocytes, as well as in promyelocytic leukemia, chronic
20 myelogenous leukemia and lymphoblastic leukemia. The 4.3kb transcript was seen in normal testis, colon, Hela cell S3, colorectal adenocarcinoma and melanoma. The 2.6kb band was found in the following prostate cell lines: PC-3 (metastatic to bone, androgen insensitive); DU-145 (metastatic to brain, androgen insensitive); FFpz (primary cells derived from normal prostate epithelium); Ffca (primary cells derived
25 from Gleason Grade 3 prostate cancer epithelium); and WO-CA (primary cells derived from Gleason Grade 4 prostate cancer epithelium). However, higher expression was observed in LNCaP, MDA PCa 2A, HPV-7 and HPV-10. A 9.5kb transcript was also observed in MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:335.

Clone SL69 (SEQ ID NO:220 and 221)

A weak 2.6kb band was observed in normal testis as well as in chronic myelogenous leukemia and lymphoblastic leukemia. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:336.

5

Clone SL86 (SEQ ID NO:242 and 243)

The sequence was expressed in normal prostate (2.7kb and 1.1kb) and testis (1.1kb). Low expression was observed in a cancer cell line blot using the cell lines described above. 1.1kb and 2.7kb transcripts were observed in the cell lines LNCaP, and MDA PCa 2a and 2b (metastatic prostate cells into bone, androgen sensitive), and weak 1.1kb transcript was seen in HPV-7 (immortalized normal prostate cells) and HPV-10 (immortalized prostate cancer cells). Additional sequence corresponding to this clone is disclosed in SEQ ID NO:337.

15 Clone SL195 (SEQ ID NO:288 and 289)

The sequence was expressed in normal prostate as a 1.9kb transcript, and the same transcript also observed in all cell lines in the cancer cell line blot described above. It was more heavily expressed in HeLa cell S3 and chronic myelogenous leukemia, and was expressed in all prostate cell lines. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:338.

20

Clone SL197 (SEQ ID NO:292 and 293)

Two transcripts, 2.4kb and 4kb, were observed in normal prostate and testis. Two very weak 2.4kb signals were observed in HeLa cell S3 and chronic myelogenous leukemia. The 2.4kb transcript was expressed in all prostate cell lines. A 4kb transcript was found in LNCaP, MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:339.

25

Those skilled in the art will recognize, or be able to ascertain, using not more than routine experimentation, many equivalents to the specific embodiments of

30

the invention described herein. Such specific embodiments and equivalents are intended to be encompassed by the following claims.

All patents, published patent applications and publications cited herein are incorporated by reference as if set forth fully herein.

TABLE 1

Clone #	Sequence Name	Other Seq Name	Clone # Cluster #	Nearest Neighbor If Available
SL-001	SL001 SL001M13	19sl1	SL-001	S60754 (VNTR locus DXZ4)
SL-002	SL002	20sl2	SL-002	L07935 HUMVNTRA
SL-003	SL003 SL003 SL003 SL003 SL003	21sl3 35-sl3-1m13 35-sl3-1t7 37-sl3-1m13 39-sl3-1m13	SL-003	AB006625 - KIAA0287 gene
SL-004	SL004 SL004M13	22sl4	SL-004	
SL-005	SL005 SL005	23sl5 30sl11b	SL-005	
SL-006	SL006 SL006M13	24sl6	SL-006	cosmid genomic clone
SL-007	SL007 SL007 SL007 SL007 SL007 SL007 SL007	25sl7 28-sl7-1m13 28-sl7-1t7 30-sl7-1m13 30-sl7-1t7 32-sl7-1m13 32-sl7-1t7	SL-003	AB006625- KIAA0287
SL-008	SL008	26sl8	SL-008	HUMP65 E=9e-62 L-plastin, Phosphoprotein (p65)
SL-009	SL009 SL009M13	27sl9		
SL-010	SL010	28sl10	SL-005	
SL-011	SL011	29sl11a	SL-011	HSU10685 - MAGE-10 Gene
SL-012	SL012	31sl12	SL-011	HSU10685 - MAGE-10 Gene
SL-013	SL013	32sl13		
SL-015	SL015 SL015 SL015 SL015	34sl15 46-sl15-2m13 47-sl15-2m13 47-sl15-2t7	SL-015	HSU90336 - PEG3 mRNA HSMRNAEN - Enkephalinase
SL-016	SL016 SL016 SL016 SL016 SL016 SL016	10-sl16-1m13 10-sl16-1t7 11-sl16-1m13 18-sl16-2m13 18-sl16-2t7 19-sl16-2m13	SL-016	

TABLE 1

	SL016 19-sl16-2t7		
	SL016 20-sl16-2m13		
	SL016 20-sl16-2t7		
	SL016 35sl16		
	SL016 9-sl16-1t7		
SL-017	SL017 36sl17	SL-017	HUMORF01 - KIAA0101 gene
SL-028	SL028m13 B1	SL-028	
	SL028t7 B1		
SL-029	SL029m13 WE97.C1.M13	SL-029	
	SL029t7 WE97.C1.T7		
SL-032	SL032m13 WE97.D1.M13	SL-032	HSTPI1G TPI1 gene
	SL032t7 WE97.D1.T7		for triosephosphate isomerase.
SL-036	SL036m13 WE97.E1.M13	SL-036	HSU81599 homeodomain protein
	SL036t7 WE97.E1.T7		HOXB13
SL-037	SL037m13 C1	SL-005	
	SL037m13 WE97.F1.M13		
	SL037t7 C1		
SL-040	SL040m13 D1	SL-040	
	SL040t7 D1		
SL-041	SL041m13 E1	SL-016	
	SL041m13 WE97.H1.M13		
	SL041t7 E1		
	SL041t7 WE97.H1.T7		
SL-042	SL042m13 WE97.A2.M13	SL-008	HUMP65 phosphoprotein (p65)
	SL042t7 WE97.A2.T7		HUMPLASTA L-plastin gene
SL-044	SL044m13 WE97.B2.M13	SL-016	
	SL044t7 WE97.B2.T7		
SL-045	SL045m13 WE97.C2.M13	SL-045	
	SL045t7 WE97.C2.T7		genomic DNA
SL-046	SL046m13 WE97.D2.M13	SL-046	
	SL046t7 WE97.D2.T7		
SL-047	SL047m13 WE97.E2.M13	SL-047	
	SL047t7 WE97.E2.T7		
SL-050	SL050m13 WE97.F2.M13	SL-050	
	SL050t7 WE97.F2.T7		
SL-051	SL051m13 WE97.G2.M13	SL-051	
	SL051t7 WE97.G2.T7		
SL-054	SL054m13 WE97.H2.M13	SL-054	
	SL054t7 WE97.H2.T7		
SL-055	SL055m13 F1	SL-050	
	SL055t7 F1		
	SL055t7 WE97.A3.T7		

TABLE 1

SL-057	SL057m13 WE97.C3.M13 SL057t7 WE97.C3.T7	SL-057	
SL-058	SL058m13 WE97.D3.M13 SL058t7 WE97.D3.T7	SL-058	HSLRPR1GN leucine-rich primary response protein 1.
SL-061	SL061m13 WE97.E3.M13 SL061t7 WE97.E3.T7	SL-028	
SL-062	SL062m13 WE97.F3.M13 SL062t7 WE97.F3.T7	SL-028	
SL-064	SL064m13 WE97.G3.M13 SL064t7 WE97.G3.T7	SL-064	
SL-066	SL066m13 WE97.H3.M13 SL066t7 WE97.H3.T7	SL-016	
SL-067	SL067m13 H1 SL067t7 H1 SL067t7 WE97.A4.T7	SL-067	HUMKIAAP - KIAA0095 gene
SL-068	SL068m13 WE97.B4.M13 SL068t7 WE97.B4.T7	SL-068	
SL-069	SL069m13 WE97.C4.M13 SL069t7 WE97.C4.T7	SL-069	
SL-071	SL071m13 WE97.D4.M13 SL071t7 WE97.D4.T7	SL-071	
SL-072	SL072m13 WE97.E4.M13 SL072t7 WE97.E4.T7	SL-015	HSU90336 Human PEG3 mRNA AB006625 KIAA0287
SL-074	SL074m13 WE97.F4.M13 SL074t7 WE97.F4.T7	SL-074	
SL-075	SL075m13 WE97.G4.M13 SL075t7 WE97.G4.T7	SL-075	
SL-076	SL076m13 WE97.H4.M13 SL076t7 WE97.H4.T7	SL-076	
SL-077	SL077m13 WE97.A5.M13 SL077t7 WE97.A5.T7	SL-077	
SL-078	SL078m13 A2 SL078m13 WE97.B5.M13 SL078t7 A2	SL-016	
SL-081	SL081m13 WE97.E5.M13 SL081t7 WE97.E5.T7	SL-003	BAC clone (with Alu) AB006625 - KIAA0287 gene
SL-083	SL083m13 WE97.G5.M13 SL083t7 WE97.G5.T7	SL-083	
SL-084	SL084m13 WE97.H5.M13 SL084t7 WE97.H5.T7	SL-084	(HS295C6 Human DNA sequence)

TABLE 1

SL-085	SL085m13 WE97.A6.M13	SL-085	
SL-086	SL086m13 WE97.B6.M13	SL-086	
	SL086t7 WE97.B6.T7		
SL-087	SL087m13 WE97.C6.M13	SL-087	EST and Mus musculus
	SL087t7 WE97.C6.T7		ras-GTPase-activating protein
SL-088	SL088m13 WE97.D6.M13	SL-015	HSU90336 Human PEG3
	SL088t7 WE97.D6.T7		& AB006625 - KIAA0287 gene
SL-089	SL089m13 WE97.E6.M13	SL-089	
	SL089t7 WE97.E6.T7		
SL-090	SL090m13 D2	SL-090	
	SL090t7 D2		
SL-091	SL091m13 WE97.G6.M13	SL-091	
	SL091t7 WE97.G6.T7		
SL-092	SL092m13 WE97.H6.M13	SL-092	HUMPRKACB testis-specific
	SL092t7 WE97.H6.T7		cAMP-dependent protein kinase
SL-093	SL093m13 E2	SL-008	HUMLPLSTN2 L-plastin gene
	SL093t7 E2		
SL-094	SL094m13 WE97.B7.M13	SL-094	
	SL094t7 WE97.B7.T7		
SL-095	SL095m13 WE97.C7.M13	SL-003	AB006625 - KIAA0287
	SL095t7 WE97.C7.T7		
SL-096	SL096m13 WE97.D7.M13	SL-096	
	SL096t7 WE97.D7.T7		
SL-097	SL097m13	SL-071	
	SL097t7		
SL-098	SL098m13	SL-098	
	SL098t7		
SL-099	SL099m13	SL-016	
	SL099t7		
SL-100	SL100m13 F2	SL-085	SL100m13 Alu - 2e-71
	SL100m13		
	SL100t7 F2		
	SL100t7		
SL-102	SL102m13	SL-102	HSRPL32 ribosomal protein L32
	SL102t7		
SL-103	SL103m13	SL-103	
	SL103t7		
SL-105	SL105m13	SL-105	
	SL105t7		
SL-106	SL106m13	SL-106	
	SL106t7		
SL-107	SL107m13	SL-016?	SL107m13 -Alu - 2e-78
	SL107t7		
SL-110	SL110m13	SL-003	AB006625 - KIAA0287 gene

TABLE 1

	SL110t7		
SL-111	SL111m13 SL111t7	SL-111	
SL-112	SL112m13 SL112t7	SL-112	
SL-115	SL115m13 SL115t7	SL-115	D86322 - calmegin
SL-116	SL116m13 SL116t7	SL-116	
SL-117	SL117m13 SL117t7	SL-117	HUMNUMB23 = HUMNPM Human nucleolar protein (B23) or Human nucleophosmin
SL-118	SL118m13 SL118t7	SL-118	
SL-119	SL119m13 SL119t7	SL-119	
SL-120	SL120m13 SL120t7	SL-046	
SL-121	SL121m13 SL121t7	SL-016	
SL-122	SL122m13 SL122t7	SL-122	HUMPRKACB testis-specific cAMP-dependent protein kinase catalytic subunit (C-beta isoform)
SL-124	SL124m13 SL124t7	SL-016	
SL-125	SL125m13 SL125t7	SL-125	HSU19145 GAGE-4 (US 5,648,226)
SL-127	SL127m13 SL127t7	SL-127	
SL-128	SL128m13 SL128t7	SL-005	
SL-130	SL130m13 SL130t7	SL-130	
SL-132	SL132m13 SL132t7	SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-134	SL134m13 SL134t7	SL-134	HSC70P Hsc 70 pseudogene (Heat Shock protein)
SL-135	SL135m13 SL135t7	SL-135	
SL-138	SL138m13 SL138t7	SL-051	
SL-139	SL139m13 SL139t7	SL-139	Homo sapiens cosmid
SL-142	SL142m13 SL142t7	SL-005	

TABLE 1

SL-143	SL143m13 SL143t7	SL-143	Genomic clone AC003978
SL-144	SL144m13 SL144t7	SL-144	E= 3-81
SL-145	SL145m13	SL-003	AB006625- KIAA0287 gene
SL-146	SL146m13 WE97.E7.M13 SL146t7 WE97.E7.T7	SL-146	
SL-147	SL147m13 G2 SL147m13 WE97.F7.M13 SL147t7 G2	SL-147	(1) HSCDC2R Human cell cycle control gene CDC2 (2) HSU29091 selenium-binding
SL-148	SL148m13 WE97.G7.M13 SL148t7 WE97.G7.T7	SL-016	
SL-149	SL149m13 H2 SL149t7 H2	SL-149	
SL-150	SL150m13 A3 SL150t7 A3	SL-150	"Human DNA sequence"
SL-151	SL151m13 WE97.B8.M13 SL151t7 WE97.B8.T7	SL-151	Genomic frag
SL-152	SL152m13 WE97.C8.M13 SL152t7 WE97.C8.T7	SL-152	
SL-153	SL153m13 WE97.D8.M13 SL153t7 WE97.D8.T7	SL-153	
SL-154	SL154t7 WE97.E8.T7	SL-154	HUMPAR5R - PAR-5 mRNA
SL-155	SL155m13 WE97.F8.M13 SL155t7 WE97.F8.T7	SL-028	SL155m13 - EST only in Mouse
SL-156	SL156m13 WE97.G8.M13 SL156t7 WE97.G8.T7	SL-016	
SL-157	SL157m13 WE97.H8.M13 SL157t7 WE97.H8.T7	SL-157	
SL-158	SL158m13 WE97.A9.M13 SL158t7 WE97.A9.T7	SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-159	SL159m13 WE97.B9.M13 SL159t7 WE97.B9.T7	SL-159	Chromosome 11 pac
SL-160	SL160m13 WE97.C9.M13 SL160t7 WE97.C9.T7	SL-051	
SL-161	SL161m13 WE97.D9.M13 SL161t7 WE97.D9.T7	SL-161	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
SL-162	SL162m13 B3 SL162t7 B3	SL-162	
SL-163	SL163m13 WE97.F9.M13 SL163t7 WE97.F9.T7	SL-016	HSU75330 -NCAM21
SL-164	SL164m13 WE97.G9.M13 SL164t7 WE97.G9.T7	SL-016	
SL-165	SL165m13 WE97.H9.M13 SL165t7 WE97.H9.T7	SL-165	(genomic seq)

TABLE 1

SL-166	SL166m13 C3 SL166t7 C3 SL166t7 WE97.A10.T7	SL-166	
SL-167	SL167m13 WE97.B10.M13 SL167t7 WE97.B10.T7	SL-167	HUMLPAC109 lipoprotein-associated coagulation inhibitor (LACI) gene
SL-168	SL168m13 WE97.C10.M13 SL168t7 WE97.C10.T7	SL-168	
SL-169	SL169m13 WE97.D10.M13 SL169t7 WE97.D10.T7	SL-169	HUMNEUROF oligodendrocyte myelin glycoprotein (OMG)
SL-170	SL170m13 WE97.E10.M13 SL170t7 WE97.E10.T7	SL-170	
SL-171	SL171m13 WE97.F10.M13 SL171t7 WE97.F10.T7	SL-171	AB002374 - KIAA0376 gene
SL-172	SL172m13 WE97.G10.M13 SL172t7 WE97.G10.T7	SL-016	
SL-173	SL173m13 WE97.H10.M13 SL173t7 WE97.H10.T7	SL-173	
SL-174	SL174m13 D3 SL174t7 D3	SL-174	
SL-175	SL175m13 WE97.B11.M13 SL175t7 WE97.B11.T7	SL-016	
SL-176	SL176m13 WE97.C11.M13 SL176t7 WE97.C11.T7	SL-176	
SL-177	SL177m13 WE97.D11.M13 SL177t7 WE97.D11.T7	SL-177	
SL-178	SL178m13 WE97.E11.M13 SL178t7 WE97.E11.T7	SL-178	Human BAC clone
SL-179	SL179m13 WE97.F11.M13 SL179t7 WE97.F11.T7	SL-179	
SL-181	SL181m13 WE97.H11.M13 SL181t7 WE97.H11.T7	SL-181	
SL-182	SL182m13 F3 SL182m13 WE97.A12.M13 SL182t7 F3	SL-182	HUMAPEA apurinic/apyrimidinic endonuclease (HAP1h) HSHAP1MR Human HAP1 mRNA
SL-183	SL183m13 WE97.B12.M13 SL183t7 WE97.B12.T7	SL-046	
SL-184	SL184m13 WE97.C12.M13 SL184t7 WE97.C12.T7	SL-016	
SL-186	SL186m13 WE97.D12.M13 SL186t7 WE97.D12.T7	SL-186	
SL-187	SL187m13 WE97.E12.M13 SL187t7 WE97.E12.T7	SL-187	
SL-188	SL188m13 G3 SL188t7 G3 SL188t7 WE97.F12.T7	SL-188	

TABLE 1

SL-191	SL191m13 WE97.H12.M13 SL191t7 WE97.H12.T7	SL-181	
SL-192	SL192m13 H3 SL192t7 H3	SL-192	Human DNA sequence"
SL-193	SL193m13 A4 SL193t7 A4	SL-193	
SL-194	SL194m13 B4 SL194t7 B4	SL-194	HUMKG1DD - KIAA0098 gene
SL-195	SL195m13 C4 SL195t7 C4	SL-195	
SL-196	SL196m13 D4 SL196t7 D4	SL-196	HUMMAOAAA monoamine oxidase (MAOA)
SL-197	SL197m13 E4 SL197t7 E4	SL-197	
SL-198	SL198m13 F4 SL198t7 F4	SL-198	
SL-199	SL199m13 G4 SL199t7 G4	SL-016	
SL-201	SL201m13 A5 SL201t7 A5	SL-028	(Mouse ESTs only)
SL-202	SL202m13 B5 SL202t7 B5	SL-202	mitochondrial genome & ESTs(?)
SL-203	SL203m13 C5 SL203t7 C5	SL-040	
SL-204	SL204m13 D5 SL204t7 D5	SL-204	
SL-205	SL205m13 E5 SL205t7 E5	SL-205	
SL-206	SL206m13 F5 SL206t7 F5	SL-015	AB006625 - KIAA0287 gene
SL-207	SL207m13 G5 SL207t7 G5	SL-207	HUMFOLMES - DHFR dihydrofolate reductase gene
SL-208	SL208m13 H5 SL208t7 H5	SL-208	AB011165 - KIAA0593
SL-209	SL209m13 A6 SL209t7 A6	SL-209	

batch 1
batch 2
batch 3
batch 4

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
10-sl16-117	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
18-sl16-217	<NONE>	<NONE>	<NONE>	MT_PLEPL	METALLOTHIONEIN (MT)>PIR2:S30567 metallothionein - plaice>GP:PPMMET_1 P;platessa mRNA for metallothionein	0.32
22sl4	AC004601	*** SEQUENCING IN PROGRESS. *** Human Chromosome 11p14.3 PAC clone pDJ939m16; HTGS phase 1, 3 unordered pieces.	0.016	VP1_BCHP	PROTEIN VP1 (ORF1)	1.0
27sl9	AF001549	Homo sapiens chromosome 16 BAC clone CIT987SK-270G1 complete sequence.	7.2e-28	ALU6_HUMAN	IIII ALU SUBFAMILY SP WARNING ENTRY IIII	3.5e-07
32sl13	AF006259	Homo sapiens Rad51-interacting protein mRNA, complete cds.	1.2e-09	MMU93583_1	Mus musculus RAD51-binding protein RAB22 mRNA, complete cds	1.2e-13
39-sl3-1m13	U07083	Human prostatic acid phosphatase (ACPP) gene, exon 1.	1.1e-09	MMU41047_1	Mus musculus transcription factor Genesis mRNA, complete cds; A winged helix retinoid- acid hepatocyte nuclear factor 3/forkhead transcription factor; HNF3/FH transcription factor-	0.36
47-sl15-217	I08056	Sequence 2 from Patent EP 0272928.	4.8e-52	<NONE>	<NONE>	<NONE>
sl102m13	AC004453	Homo sapiens PAC clone DJ0844F09 from 7p12-p13, complete sequence.	5.0e-50	SIK1_YEAST	SIK1 PROTEIN>PIR2:S48550 hypothetical protein YLR197w - yeast (Saccharomyces cerevisiae)>GP:SCU20237_1 Saccharomyces cerevisiae SIK1p (SIK1) gene, complete cds; Possible microtubule binding protein; similar to GenBank Accession Number U14913	2.7e-09
sl103m13	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.	0.78	MUSIGHV01B_1	Mouse CBAJ Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene	0.30
sl10317	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.	7.0e-11	MUSIGHV01B_1	Mouse CBAJ Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene	0.25

TABLE 2

Seq. Name and/or Other Seq. Name.	BlasIN vs. Gb (nearest neighbor)			BlasIX vs. NRPdb (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
sl10617	I48979	Sequence 6 from patent US 5627054.	4.3e-39	Y694_METJA	HYPOTHETICAL PROTEIN MJ0694>PIR2:F84386 hypothetical protein MJ0694 - Methanococcus jannaschli>GP:U67516_8 Methanococcus jannaschli section 58 of 150 of the complete genome; Conserved hypothetical protein; Similar to SP:Q12499.PID:1420682.P1.	1.5e-08
sl10717.fsa	AL021385	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 269M15; HTGS phase 1.	2.6e-07	ALU4_HUMAN	IIII ALU SUBFAMILY SB2 WARNING ENTRY IIII	0.45
sl12417	B31344	HS-1008-A2-A05-MF.abl C1T Human Genomic Sperm Library C Homo sapiens genomic clone Plate=CT 330 Col=10 Row=A, genomic survey sequence.	1.0e-55	ALU7_HUMAN	IIII ALU SUBFAMILY SQ WARNING ENTRY IIII HYPOTHETICAL TRP-ASP REPEATS CONTAINING PROTEIN C18B11.10 IN CHROMOSOME 1>PIR2:S58306 hypothetical protein SPAC18B11.10 - fission yeast (Schizosaccharomyces pombe)>GP:SPAC18B11_10 S:pombe chromosome I cosmid c18B11; Unknown; SPAC18B11.10, la	1.2e-14
sl12717	Z83818	Human DNA sequence from PAC 138A5 on chromosome X contains ESTs.	2.8e-16	YA3A_SCHPO	Homo sapiens BAC clone RG013N12 from 7q31.2, complete sequence; H_RG013N12.gw:1335199.a A; thaliana transcribed sequence; clone VDV28- 22792, 3' end; similar to nonspecific lipid- transfer protein precursor	0.97
sl135m13	AC003959	Homo sapiens chromosome 5, P1 clone 1029A7 (LBNL H15), complete sequence.	1.8e-57	AC004416_5		0.016
sl13517	AC003044	Human PAC clone DJ1055C04 from 7p15-7p21, complete sequence.	3.8e-25	ATTS0669_1		0.77
sl144m13	AC003684	Homo sapiens; HTGS phase 1, 53 unordered pieces. *** SEQUENCING IN PROGRESS *** Human Chromosome 7 BAC Clone 155b01; HTGS phase 1, 11 unordered pieces.	2.2e-10	<NONE>	<NONE>	<NONE>
sl14417	AC004089		0.25	<NONE>	<NONE>	<NONE>

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NR/Pdb (nearest neighbor)		P(V)	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description			
SL149m13 WE97.H7.M13	M87923	Human carcinoma cell-derived Alu RNA transcript, clone CE12.	ALU2_HUMAN	IIII ALU SUBFAMILY SB WARNING ENTRY IIII	7.2e-55		4.7e-17
SL150m13 WE 97.A8.M13	AF019122	Homo sapiens DNA polymerase gamma (POLG) gene, nuclear gene encoding mitochondrial protein, partial sequence, genomic survey sequence.	<NONE>	<NONE>	5.5e-07	<NONE>	<NONE>
SL152m13	AF022186	Cyanidium caldarium RK1 chloroplast sequence.	<NONE>	<NONE>	0.11	<NONE>	<NONE>
SL152i7	AC002524	Homo sapiens Xp22 BAC GSHB-257G1 (Genome Systems BAC Library) complete sequence.	F40201	artifact-warning sequence (translated ALU class F) - human	3.5e-28		1.2e-05
SL153m13	U29895	Human 4-hydroxyphenylpyruvate dioxygenase gene, complete cds.	C40201	artifact-warning sequence (translated ALU class C) - human	4.4e-15		0.49
SL153i7	U29895	Human 4-hydroxyphenylpyruvate dioxygenase gene, complete cds.	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X-linked retinopathy protein (3' region, clone XEH.8c) [human, mRNA Partial, 390 nt]; This sequence comes from Fig. 5	5.1e-09		0.070
SL155m13	Z99286	Caenorhabditis elegans cosmid Y7A9C, complete sequence.	POLG_PRSVH	GENOME POLYPROTEIN (CONTAINS: N-TERMINAL PROTEIN; HELPER COMPONENT PROTEINASE (EC 3.4.22.-) (HC-PRO); 42-50 KD PROTEIN; CYTOPLASMIC INCLUSION PROTEIN (CI); 6 KD PROTEIN; NUCLEAR INCLUSION PROTEIN A (NI- A) (EC 3.4.22.-) (49K PROTEINASE) (49	0.016		1.0
SL157m13	U91321	Human Chromosome 16 BAC clone CIT987SK-A-363E6, complete sequence.	ALU1_HUMAN	IIII ALU SUBFAMILY J WARNING ENTRY IIII	6.0e-26		4.5e-11

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)	Accession	Hit Description	P(V)	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description						
SL16017	<NONE>	<NONE>	CA34_HUMAN	PROCOLLAGEN ALPHA 3(IV) CHAIN PRECURSOR>PIR1:CGHU3B collagen alpha 3(IV) chain precursor, long splice form - human>GPN:HSCOL4A3_1 H;saplens COL4A3 mRNA; Type IV collagen alpha 3 chain>GP:HSCOL4A3_1 H;saplens COL4A3 mRNA; Type IV collagen alp	<NONE>					0.99
SL16217 WE97.E9.T7	X58263	Mouse microsatellite marker DNA D4SMH6b, 4.		PROTEIN>PIR2:S19129 proline-rich protein TPRP-F1 - tomato>GP:LETPRPF1_1 L; esculentum TPRP-F1 gene for a proline rich protein	0.0029	PRF1_LYCES				0.99
SL16917	AC004687	... SEQUENCING IN PROGRESS ... Homo sapiens chromosome 17, clone hRPC.1171_L_10; HTGS phase 1, 4 unordered pieces.			2.5e-11	<NONE>	<NONE>	<NONE>		<NONE>
SL17417	<NONE>	<NONE>	A54895	mucin 2, intestinal/tracheal - rat (fragment)	<NONE>					0.13
SL176m13	Z73424	Caenorhabditis elegans cosmid C44B9, complete sequence.			0.00084	<NONE>	<NONE>	<NONE>		<NONE>
SL176i7	Z83119	Caenorhabditis elegans cosmid R05H10, complete sequence.			0.38	<NONE>	<NONE>	<NONE>		<NONE>
SL177m13	AL022279	Caenorhabditis elegans DNA ... SEQUENCING IN PROGRESS ... from clone Y43F11; HTGS phase 1.		ANNEXIN VII (SYNEXIN) (FRAGMENT)>PIR2:A27695 synexin - bovine (fragment)	0.00064	ANX7_BOVIN				0.0018
SL177i7	AC002416	Human Chromosome X, complete sequence.			1.8e-17	<NONE>	<NONE>	<NONE>		<NONE>
SL179m13	AF039052	Caenorhabditis elegans cosmid T22D1.	CMU23045_8	Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8>GP:CMU23045_8 Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8	0.030					0.98
SL179i7	L41631	Mus musculus glucokinase gene, complete cds.	<NONE>	<NONE>	0.017	<NONE>	<NONE>	<NONE>		<NONE>

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)	Accession	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description				
SL181m13	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase 1.	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCORA_6 Anabaena sp; cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.017			0.99
SL181i7	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase 1.	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCORA_6 Anabaena sp; cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.018			0.99
SL191m13	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase 1. *** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	<NONE>	<NONE>	0.019			<NONE>
SL195m13	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	HSU55091_1	Human isolate HR015 T cell receptor V-beta complementarily determining region 3 mRNA, partial cds	0.050			1.0
SL195i7	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	S54078	probable membrane protein YPR056w - yeast (Saccharomyces cerevisiae)>GP:SC9499X_12 S;cerevisiae chromosome XVI cosmid 9499; Unknown; YP9499;12, unknown, len:338, CAl: 0:12, similar to S44455, transcription factor BTF2 chain p34, (29:3% identit	0.053			0.64
SL197m13	AF003134	Caenorhabditis elegans cosmid ZC581.	<NONE>	<NONE>	0.99			<NONE>
SL197i7	U43400	Human herpesvirus-7 (HHV7) JI, complete virion genome. Sindbis virus sequence complementary to 26S messenger RNA.	<NONE>	<NONE>	0.99			<NONE>
SL18i7	V00073		<NONE>	<NONE>	3.2e-09			<NONE>

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL201m13	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	0.0013	SIU05069_1	Simian Immunodeficiency virus SIVRhe543 clone 5-4 envelope glycoprotein (env) gene, V1 region, partial cds	1.0
SL201i7	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	0.0014	HUMLTBP_1	Homo sapiens (clone H 4;4) latent transforming growth factor- beta binding protein (LTBP-1L) gene, partial cds; Latent transforming growth factor-binding protein	1.0
SL204m13	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.	1.0e-11	CEF44G4_1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4;1; Similarity to 35;1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	5.6e-72
SL204i7	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.	9.3e-12	CEF44G4_1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4;1; Similarity to 35;1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	2.3e-71
SL28m13	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
SL28i7	Z84469	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 380O13; HTGS phase 1.	2.9e-53	<NONE>	<NONE>	<NONE>
SL29m13	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	3.3e-09	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.)>GP:MEFMCRC_5 M;fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.95
SL29i7	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	0.97	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.)>GP:MEFMCRC_5 M;fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.97

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)	Accession	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description				
SL4M13	D42085	Human mRNA for KIAA0095 gene, complete cds.	HUMKIAAP_1	Human mRNA for KIAA0095 gene, complete cds; KIAA0095 gene is related to S;cerevisiae NIC96 gene	2.0e-27			3.6e-12
SL54m13	Z68694	Human DNA sequence from cosmid cU177E8, between markers DXS366 and DXS87 on chromosome X.	HUMF8L1A_1	Human factor VIII gene L1 element insertion DNA; Unknown protein; ORF; putative	4.9e-28			1.2e-12
SL6117	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	AF004841_1	Homo sapiens CDO mRNA, complete cds; Immunoglobulin superfamily member; contains fibronectin type III-like domain	0.00083			1.0
SL6217	AC004153	*** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 PFYAC812 genomic sequence; HTGS phase 1, 26 unordered pieces.	<NONE>	<NONE>	1.0			<NONE>
SL68m13	AC004157	*** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 PFYAC293 genomic sequence; HTGS phase 1, 18 unordered pieces.	<NONE>	<NONE>	0.00071			<NONE>
SL6817	AJ226619	Clona intestinalis genomic fragment, clone 17H6, genomic survey sequence.	<NONE>	<NONE>	0.064			<NONE>
SL69m13.fsa	Z22789	H.sapiens CA/GT repeat polymorphism sequence.	AE001179_2	Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein F, putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27;00; Identified by sequence	1.9e-22			1.0
SL6917	AL010138	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-56, complete sequence.	AE001179_2	Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein F, putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27;00; Identified by sequence	0.21			1.0
SL75m13	AC002536	Human Chromosome 11 pac pDJ1075120, complete sequence.	BTRNAT3_1	B.taurus mRNA for complete thrombospondin	1.0			0.0074

TABLE 2

BlasIN vs. Gb (nearest neighbor)			BlasIX vs. NRPdb (nearest neighbor)			
Seq. Name and/or Other Seq. Name.	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL7717	AF012886	Buchnera aphidicola UDP-N-acetylmutamate: L-alanine ligase (murC157), D-alanine: D-alanine ligase (ddlB), cell division protein (ftsA), cell septation protein (ftsZ), and pfs genes, complete cds.	0.40	<NONE>	<NONE>	<NONE>
SL86m13	Z69790	Caenorhabditis elegans cosmid F33C8, complete sequence.	0.020	<NONE>	<NONE>	<NONE>
SL8617	U39368	Acanthonevra sp. 16S ribosomal RNA gene, mitochondrial gene encoding mitochondrial RNA, partial sequence.	0.054	<NONE>	<NONE>	<NONE>
SL90m13	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
SL94m13	X95276	P. falciparum complete gene map of plastid-like DNA (IR-B).	0.0096	SHFORF_1	Shigella sonnei DNA for 26 ORFs, complete cds; ORF1	0.15
SL9417	AL022313	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 1119A7; HTGS phase 1.	6.0e-18	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X-linked retinopathy protein [3' region, clone XEH.8c] [human, mRNA Partial, 390 nt]; This sequence comes from Fig: 5	5.7e-07

CLAIMS

WE CLAIM:

1. A method of diagnosing cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations comprising:
 - (a) providing a polynucleotide probe that comprises a sequence capable of hybridizing to any one of the sequences shown in SEQ ID NO:1-339 or complement thereof;
 - (b) contacting a biological sample for diagnosis with said probe under hybridizing conditions that permit formation of a duplex; and
 - (c) determining the presence of said duplex.
2. The method of claim 1, wherein said polynucleotide probe comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.
3. The method of claim 2, wherein said polynucleotide probe comprises 8 contiguous nucleotides of the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.
4. A method of diagnosing cancer, tumor progression, or hyperproliferative cell growth comprising:
 - (a) providing an antibody capable of binding to a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof;
 - (b) contacting a biological sample for diagnosis with said antibody under binding conditions that permit formation of an antibody-polypeptide complex; and
 - (c) determining the presence of said complex.
5. The method of claim 4, wherein said antibody is capable of binding to a polypeptide comprising at least six contiguous amino acid of a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof.

6. The method of claim 5, wherein said polypeptide comprises at least six contiguous amino acids of a polypeptide encoded by any one the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.

7. A diagnostic kit comprising:

- (a) a diagnostic reagent comprising a polynucleotide probe that comprises a sequence capable of hybridizing to any one of SEQ ID NO:339 or complement thereof when said sequence is present in a test biological sample;
- (b) a normal biological sample; and
- (c) instructions for detecting differences that exist between the levels of duplexes in said test biological sample as compared to said normal biological sample.

8. A method of treating a mammal with cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations, said method comprising administering to said mammal a composition that comprises a therapeutically effective amount of a polynucleotide comprising a sequence capable of hybridizing under stringent conditions to any one of SEQ ID NO:1-339 or complement thereof.

9. The method of claim 8, wherein said polynucleotide comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.

10. The method of claim 9, wherein said polynucleotide is an antisense construct.

11. The method of claim 9, wherein said polynucleotide is a ribozyme construct.

12. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of any one of SEQ ID NO:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
 - (b) a polynucleotide encoding a variant of the polypeptide encoded by (a);
- and
- (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of at least one of sequences of (a).
13. A vector comprising the polynucleotide of claim 12.
14. A host cell comprising the vector of claim 13.
15. A composition comprising a polypeptide, wherein the polypeptide is selected from the group consisting of:
- (a) a polypeptide encoded by any one of the polynucleotides of claim 12,
- and
- (b) a variant of the polypeptide of (a).

Sequence Range: 1 to 1383

10 20 30 40 50 60
TTA CTC ACT ATA GGG CTC GAG CGG CCG CCC GGG CAG GTG TAA AAA TAA AAT GAC AGT TTG AAC ATA CAA
AAT GAG TGA TAT CCC GAG CTC GCC GGC GGG CCC GTC CAC ATT TTT ATT TTA CTG TCA AAC CAT ATA GTT
<E S Y P E L P R G P L H L F L I V T Q V Y L

70 80 90 100 110 120 130
AAC CCA CCC CAT TCC TAT AGA GCC TAG TAC TAC ACT ACC CCC TCC CAA CTT TAG CCT CCA CAT ATA GTA
TTG GGT GGG GTA AGG ATA TCT CGG ATC ATG ATG TGA TGG GGG AGG GTT GAA ATC GGA GGT GTA TAT CAT
<V W G M G I S G L V V S G G G L K L R W M Y Y

140 150 160 170 180 190 200
ATG TGC TTG GAA CAC AAA AAA CAC TTC ATA AAT TGT GCT GAA TGA AAT CAT TTC CAT GAG TGT TTA TGG
TAC ACG AAC CTT GTG TTT TTT GTG AAG TAT TTA ACA CGA CTT ACT TTA GTA AAG GTA CTC ACA AAT ACC
<H A Q F V F F V E Y I T S F S I M E M

210 220 230 240 250 260 270
ATT TTG AGT TCA TTT GTA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT TTC CAG AGC AAA
TAA AAC TCA AGT AAA CAT GGA AAA TGG AAT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT

280 290 300 310 320 330 340
GGA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT TTC CAG AGC AAA GGG CAC AGA TCC CAG
CCT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT CCC GTG TCT AGG GTC

350 360 370 380 390 400 410
GCA TAA CAA CGC TTT GCG TAT ACA GCA ACC AAT ATC TTG TCA ACC CAA GAA AGT TCC TCC ATT GAT ACC
CGT ATT GTT GCG AAA CGC ATA TGT CGT TGG TTA TAG AAC AGT TGG GTT CTT TCA AGG AGG TAA CTA TGG

420 430 440 450 460 470 480
TAG TAG AAA TAG CCC AGT TTT TAA AGT CCT CAA AAC TGT AAC AAA TTA CTT GTT TTT AAA ATT TAA CTT
ATC ATC TTT ATC GGG TCA AAA ATT TCA GGA GTT TTG ACA TTG TTT AAT GAA CAA AAA TTT TAA ATT GAA

490 500 510 520 530 540 550
AAA TTA ATA CAA TCA GAT TTT TGT GTT ATT TGG GTA TTA GAG TAT GTT AAA GCA CAT ATA TCC CAG AGA
TTT AAT TAT GTT AGT CTA AAA ACA CAA TAA ACC CAT AAT CTC ATA CAA TTT CGT GTA TAT AGG GTC TCT

560 570 580 590 600 610 620
CAT AGA GTT TCC GTT TCA AAA AGT CAT GCA TTC ATG TGT CCT AAT GAC AAT CCT ATC CTG ACC CGC TAT
GTA TCT CAA AGG CAA AGT TTT TCA GTA CGT AAG TAC ACA CGA TTA CTG TTA GGA TAG GAC TGG GCG ATA

630 640 650 660 670 680 690
GTG ACT TGT ATC TCT AAA CCA TAG GCT TTC CTG AAT TTT ATC TGT TAA TTT AAC CCT GAT TTC TCA GCA
CAC TGA ACA TAG AGA TTT GGT ATC CGA AAG GAC TTA AAA TAG ACA ATT AAA TTG GGA CTA AAG AGT CGT

700 710 720 730 740 750
GCA GCT TCT CTT TGT TAA TAG ACT TGC CTC TTC TGT GTC TGA CCT CTG CTC CTC ATA ATC AGA TTA ACT
CGT CGA AGA GAA ACA TTT ATC TGA ACG GAG AAG ACA CAG ACT GGA GAC GAG GAG TAT TAG TCT AAT TGA

760 770 780 790 800 810 820
CAG ATA AAG CTG CTT CAG GGA AGA GGT CAA AAC CGT TGC CAA AAA TAG TAG TTG CCC TAC TTC AGT CTA
GTC TAT TTC GAC GAA GTC CCT TCT CCA GTT TTG GCA ACG GTT TTT ATC ATC AAC GGG ATG AAG TCA GAT

830 840 850 860 870 880 890
TTT TCA ACA GAG TAG CCA GGA GAT CCT GTT CAC ACC AAA GTC CAA TCA GCC CTA CTG TTA GCA CTC TGC
AAA AGT TGT CTC ATC GGT CCT CTA GGA CAA GTG TGG TTT CAG GTT AGT CGG GAT GAC AAT CGT GAG ACG

900 910 920 930 940 950 960
TCA CAA GCC TCC AGT GGC TTC CGA CCT CAC TCA CAG TAA AAG CCA AGT CAT CCT TTA GCC TAT GAT GTC
AGT GTT CGG AGG TCA CCG AAG GCT GGA GTG AGT TTC GGT TCA GTA GGA AAT CGG ATA CTA CAG

970 980 990 1000 1010 1020 1030
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GAT GTA CTA AAC TTA AGG GAA GGT AAC TAA AAA CAG TGA CTA AAA ATT TTT AGG TTT AAG TAA GAG TAT

1040 1050 1060 1070 1080 1090 1100
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GTC GAC TTA ACA GGA GAA ACG AAA TTC ATA CGG TCC TAA TAA AGA TGG AGT CCC GGA AAC GTG AAC TAT

1110 1120 1130 1140 1150 1160 1170
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AAG GGA AGT GGA AAA GGT TCT ATT AAT AAG GGA GTG GAG TCA GTT CGG AAA TAA ATC TAC GGG GGA AGA

1180 1190 1200 1210 1220 1230 1240
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GTA GTT CCG TAA GAG ACT AGA GGA ATA AAT TTA CAT ACT GTG GGG AAG AAA CGA AAT GTA AAT TAG TCT

1250 1260 1270 1280 1290 1300 1310
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TGT ACA CAG TGA TAG ATC GTA TAT TAT GTA AAC GAA CTG GAG AAA ACA AAT GAC AGA TAC GGA GGA CTT

1320 1330 1340 1350 1360 1370 1380
TAC TGT GTA AGC TCC ACG ATA CAG GCA CTT TTC TCT ATT TCG AGC ACT GTT GTA TTA CAG AGC CTT AAA
ATG ACA CAT TCG AGG TGC TAT GTC CGT GAA AAG AGA TAA AGC TCG TGA CAA CAT AAT GTC TCG GAA TTT

FIGURE 1

2/3

Sequence Range: 1 to 1815

```

      10      20      30      40      50      60
ACT TTT TGT TCA TTT TGA TTT TTG GAT AAT GCA AAA TTA TAG ATT TTT TAA AAA TTA TAT TCA AAG AAT
TGA AAA ACA AGT AAA ACT AAA AAC CTA TTA CGT TTT AAT ATC TAA AAA ATT TTT AAT ATA AGT TTC TTA

70      80      90      100      110      120      130
ACT GAG TGC AAG ACA ATC TTT CTA GGT TAA AAA ATA TCT TAT AAA CCT GAA TTG TCA ATT ATT ATT GTA
TGA CTC ACG TTC TGT TAG AAA GAT CCA ATT TTT TAT AGA ATA TTT GGA CTT AAC AGT TAA TAA TAA CAT

140      150      160      170      180      190      200
TCC CAG ATG TAT GGA AGT TAA TGG ATA GTC AGT AAC ATA CAG GAC TAG CAG AAG GTT TGT TGT TAT AGG
AGG GTC TAC ATA CCT TCA ATT ACC TAT CAG TCA TTG TAT GTC CTG ATC GTC TTC CAA ACA ACA ATA TCC

210      220      230      240      250      260      270
TAA TCT GGA GAG AAG CCA GGT AAG TGG AAT TTG GGA TTT GCT GCT GTT GCC AGA AAG CAG CAC AGA GAC
ATT AGA CCT CTC TTC GGT CCA TTC ACC TTA AAC CCT AAA CGA CGA CAA CGG TCT TTC GTC GTG TCT CTG

280      290      300      310      320      330      340
ATG GTA AGT GGC AAG ACC CAG GTA ACT AAA ACA ACC ATG TCT TAG TCC TTT TAT GCT GCT GTA ACA GAA
TAC CAT TCA CCG TTC TGG GTC CAT TGA TTT TGT TGG TAC AGA ATC AGG AAA ATA CGA CGA CAT TGT CTT

350      360      370      380      390      400      410
TAT CAC AGA CTG AGT AAT TTA TAA TGA ACA GAA CTT TAT TTG TCT TCT GGT TCT GGA GAC TGG GAA ATC
ATA GTG TCT GAC TCA TTA AAT ATT ACT TGT CTT GAA ATA AAC AGA AGA CCA AGA CCT CTG ACC CTT TAG

420      430      440      450      460      470      480
TAA GAG CGT GGC ATT GAC ATA TGG TGA GGG CAT TTG TGC CTC ATC ATC CCA TGA CAG AAG ATG GAA ATG
ATT CTC GCA CCG TAA CTG TAT ACC ACT CCC GTA AAC ACG GAG TAG TAG GGT ACT GTC TTC TAC CTT TAC

490      500      510      520      530      540      550
CAA GAG AGC TCA AAA GCA AGA GAG CAA ATG GGG CCA AAC TTG CTT TTT ATA ACA AGC CAC TCT TGT GAT
GTT CTC TCG AGT TTT CGT TCT CTC GTT TAC CCC GGT TTG AAC GAA AAA TAT TGT TCG GTG AGA ACA CTA

560      570      580      590      600      610      620
AAT GAA CCA ACT CAA ACA ATA AAG ACA TAA ATC CAT TCA TGA GGG CAG AGC CCT CAA GGA TGA ATC ACT
TTA CTT GGT TGA GTT TGT TAT TTC TGT ATT TAG GTA AGT ACT CCC GTC TCG GGA GTT CCT ACT TAG TGA

630      640      650      660      670      680
TCA CTT CTT A ATG GCC TCA GCT TCT AAT ACC ATC ACA ATA GTA ATT CAG TTT CAA CAT GGG TTT TAT
AGT GAA GAA T TAC CGG AGT CGA AGA TTA TGG TAG TGT TAT CAT TAA GTC AAA GTT GTA CCC AAA ATA
M A S A S N T I T I V I Q F Q H G F Y>

690      700      710      720      730      740      750
AGG GAC GTT GGA ACC ACA GCA AAC TGT AAC CAT TTT GAT TTC CTT ATT TGC ACC ATT TTA AAA AAA CCT
TCC CTG CAA CCT TGG TGT CGT TTG ACA TTG GTA AAA CTA AAG GAA TAA ACG TGG TAA AAT TTT TTT GGA
R D V G T T A N C N H F D F L I C T I L K K P>

760      770      780      790      800      810      820
ATT TAT TTA ACG ACT GTT TAT TCA GTG CCT ATT CTG TTG TGT TGG GGA CTA GAG GTA ATT ACA AAG GGA
TAA ATA AAT TGC TGA CAA ATA AGT CAC GGA TAA GAC AAC ACA ACC CCT GAT CTC CAT TAA TGT TTC CCT
I Y L T T V Y S V P I L L C W G L E V I T K G>

830      840      850      860      870      880      890
ATA AGA CAA ACA GTC ACC CAC TCT GGT GAT GCT TCC CTT ATC TTC ATA ATG CAT TTG ATC CTG TG ATT
TAT TCT TGT TGT CAG TGG GTG AGA CCA CTA CGA AGG GAA TAG AAG TAT TAC GTA AAC TAG GAC AC TAA
I R Q T V T H S G D A S L I F I M H L I L>

900      910      920      930      940      950      960
CTT TGG CAC ATG AGT CCA TTG CAT CTT GCA TAT TAG TGT CCA GTA AGT TTT TCC TGA CCA ATT GAT AAT
GAA ACC GTG TAC TCA GGT AAC GTA GAA CGT ATA ATC ACA GGT CAT TCA AAA AGG ACT GGT TAA CTA TTA

970      980      990      1000      1010      1020      1030
ATA GAT ATA CAT TGG TAG CAG TTT TGT GTA TAT TTT TAT AGT TAG ATG TTG TTG GCA CAT GTG ACT TGT
TAT CTA TAT GTA ACC ATC GTC AAA ACA CAT ATA AAA ATA TCA ATC TAC AAC AAC CGT GTA CAC TGA ACA

1040      1050      1060      1070      1080      1090      1100
GTC TCA GAA AAA TAC AGA AAA TGG TTA AAG ACA GGA GGA TAC TAC CCT GAT TTC TCT GTT CAT TAA AGA
CAG AGT CTT TTT ATG TCT TTT ACC AAT TTC TGT CCT CCT ATG ATG GGA CTA AAG AGA CAA GTA ATT TCT

1110      1120      1130      1140      1150      1160      1170
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TGT CGA TAA ACC CCC CTT TTG GAC TAT GTT AAT AAA CTC GTA CAC CGA ATT TCT AAT CTG GAT ATT TGT

1180      1190      1200      1210      1220      1230
ATT CAG GAG CAT CTT CCA GCA AAC TGT GTG AGA ATT CAC AGA AAT AAA CCT GGT AGG TTT GTG CTA TGT
TAA GTC CTC GTA GAA GGT CGT TTG ACA CAC TCT TAA GTG TCT TTA TTT GGA CCA TCC AAA CAC GAT ACA

1240      1250      1260      1270      1280      1290      1300
TAT TCA CAT GGG CTG TTA ACT CTT TTC CAT TCC TAG GTC CTT TAT TTC CCT GCC CTC CTC AAT CTC ATG
ATA AGT GTA CCC GAC AAT TGA GAA AAG GTA AGG ATC CAG GAA ATA AAG GGA CGG GAG TAT GAG TAC

1310      1320      1330      1340      1350      1360      1370
CTC TTG AGA TTT TTA ACT ATA TTA CTT CTT TAC AAA GTC ATC TTC AAA ATG ATT CAT TTT GGA TAG CAA

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SL5 Immunohistochemistry Comparison of Tumor vs Normal

	1	2	3	4	5	6	7	8	9	10
A	Adrenal	Adrenal	Adrenal	Ovary	Ovary	Ovary	Ovary	Breast	Breast	Breast
Tumor	(+4)	(+4)	(+2)	(+4)	(+4)	(+4)	(+4)	na	(+4)	(+1)
NC	(-)	(-)	(-)	wp	(-)	(-)	(-)	na	(-)	(-)
Normal	(+2)	(+2)	(+2)	(+1)	(+1)	na	na	(+1)	na	na
NC	(-)	(-)	(-)	(-)	(-)	na	na	(-)	na	na
B	Colon	Colon	Colon	Colon	Prostate	Prostate	Prostate	Prostate	Uterus	Cervical
Tumor	(+4)	(+4)	(+4)	(+4)	(+2)	(+3)	(+3)	(+3)	(+4)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+3)	?	(+2)	(+1)	(+2)	(+2)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
C	Kidney	Kidney	Kidney	Kidney	Pancreas	Pancreas	Pancreas	Pancreas	Lelomyo.	Lelomyo.
Tumor	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG	EDG
Normal	?	?	?	?	(+1)	(+1)	(+2)	(+1)		
NC	(-)	(-)			(-)	(-)	(-)	(-)		
D	Liver	Liver	Liver	Stomach	Stomach	Stomach	Lymphoma	Lymphoma	Lymphoma	Lymphoma
Tumor	(+4)	(+4)	(+4)	(-)	na	na	(+4)	(+2)	(+2)	(+1)
NC	(-)	(-)	(-)	(-)	na	na	(-)	(-)	(-)	(-)
Normal	na	na	na	na	na	na	(+1)	(+1)	?	(-)
NC	na	na	na	na	(-)	(-)	(-)	na	(-)	(-)
E	Seminoma	Seminoma	Seminoma	Thyroid	Thyroid	Thyroid	Thyroid	Fibro.	Fibro.	Fibro.
Tumor	(+3)	(+4)	(+4)	(+4)	na	na		(+4)	(+4)	(+4)
NC	(-)	(-)	(-)	EDG	wp	EDG	EDG	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+1)	(+1)	(+2)	(-)	purk(+)	(+2)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	na
F	Melanoma	Melanoma	Melanoma	Chorio.	Carcinoid	Chorio.	Basal Cell	Basal Cell	Basal Cell	Germ Cell
Tumor	(+4)	(+4)	(+4)	(+4)	(+4)?	(+1)	(+3)	(+3)	(+1)	(+4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG
Normal							(+1)	(+1)		(+1)
NC							(-)	(-)		(-)

Staining Intensity: -, no staining; + weak; ++ medium; +++ strong staining
 Staining Percentage: 1: 0-25%; 2: 26-50%; 3: 51-75%; 4: 76-100%
 For example: (++3) stands for 51-75% of cells have medium staining
 NC: Negative Control; na: no tissue materials on slides

FIGURE 3

SEQUENCE LISTING

<110> Zhang, Jimmy
Astel, Jon H.
Carroll III, Eddie
Endege, Wilson O.
Ford, Donna M.
Monahan, John E.
Schlegel, Robert
Steinmann, Kathleen E.

<120> GENES AND GENE EXPRESSION PRODUCTS THAT
ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

<130> 200130.463

<140> US

<141> 1999-06-11

<160> 339

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

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ttaagagacc	atcctggcca	acatgatgaa	accctgtctc	tactaaaaat	acaaaaagta	180
gctgggctgtg	gtggcatact	cttacaatcc	cagctacttg	ggaggctgag	gcaggagaat	240
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ttaacgaagc	attaaaatca	gatgtaaaaa	aagaaaaaaa	aaggcaggga	aatatttaca	660
aaactggaca	ttctttacag	atatacaatc	ttgctaatac	tgggagaacc	nttccaagga	720
tgtataaaga	ggagacgnca	ccttagtaat	gccagggata	gagaaaaccc	nggatataat	780
atgggggtttt	taatgccgga	acatggngga	aactaggang	agccgagatg	ganctgggtcc	840
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ntangcgatc	agctattgna	cggaaatctct	gtganantga	nnagctnana	tcntctccan	180
ggaanaacag	ntccncaang	ctntattnga	gacagagcta	tgacannnnc	ntntntactc	240
ngacagtcc	taggaaccnc	gcaantgana	nngnggngat	gcactagga	nctgncncnn	300
ntagnagcg	agccccggtg	ataactgcc	tggtaacncg	nagctgnaaa	gccgcctgca	360
gaccgaacct	gagactgacg	tcgcctcanc	tatngacnnn	nncccnatnn	tgagtgnaag	420
cgtncnctatg	ngacactcgg	ggncacgat	gcanancgct	ancnnccnn	ggngtgncan	480
tnagnnatcn	ttgcncatat	tnccnatntt	gacatgtgta	atgatngaga	tctcatannt	540
gcactgtgct	tctcatctat	taacgctaaa	ccatgacagt	ttnccttcat	tgccacntnc	600
tttcagtac	ccnanaatnt	atcgctanat	attcnatcct	tcaacngtag	cattnttcct	660
gctnttcttt	ncnnaaagca	tcttctttcc	caactcactc	cagggccaaa	tactctcanc	720
cnctcactn	tangntctcn	gntcacggtc	tttcccgta	cacgtcattc	aattccccctc	780
gnaagctanc	ccaggcccaa	ctttnttctt	cttcaccggn	nntaacttaa	tcctggggga	840
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 <223> n = A,T,C or G

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cctttttgtag	ccttttccct	tagtctctc	ttcccgggtg	ttggtaaaaa	gaggtgaatt	180
gacagcctat	gttgaagaca	ctgtgctttt	ctcaagaagg	acatccaaac	agcaagtcta	240
cttctttctc	tttaacgatg	tgctcattat	caccaagaag	aagagtgaag	aaagttaaca	300
cgtaaatgat	tattccctaa	gagatcagct	attgggtgaa	tcttgtaga	atgaagagct	360
taattcttct	ccagggaaga	acagctccac	aatgctctat	tcaagacaga	gctctgccag	420
tcacctcttt	actctgacag	tccttagtaa	ccacgcgaat	gagaaagtgg	agatgctact	480
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cagcgatggc	tggtatgagg	gggaacgact	acgagatgga	gaaagaagct	ggtttcctat	720
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ggacgcttgc	taggactgga	gaanccacgt	gagncctttt	aangggcctt	tggtactgca	840
agaattgcac	cgacacttac	cgggcttggt	ggttctgggg	ctagttaaat	ggnaatttgg	900
cccagncttt	ttaattaaag	gaccggaac	cntggccttt	aactttggcc	agtggtnccg	960
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ctcccaagta	gctgcgacta	caggtgcacg	ccattgcagc	tggttaattt	ttgtattttc	180
agtagagatg	gggtttcccc	atgttggcca	ggctggtctt	gaactcctaa	gctcaagcaa	240
ttcacctgcc	tcagcctccc	agagtgcctg	gattactcct	aagctcaagc	aattcacctg	300
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aagctcaagc	aattcacctg	cctcagcctc	ccagagtgc	gggattacag	gtgtgaagca	600
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ctggggagaa	acttntcggg	gatnggaagt	gaaannggtt	ccgctggggc	ccccttnttt	900
tgggaaaccc	caggngngtn	tngcaaaggc	caagggaaa	gcctcaaggg	ggggcatgaa	960
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<212> DNA

<213> Homo Sapien

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<223> n = A,T,C or G

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ggntgcngt	gnagtctgtn	cctgngggcan	cgcgtcatgc	atgactttgg	gtcattgctg	180
ctctccttgc	ctttagggga	gggtcctggt	gctctgtgag	cagattngac	cctaggggtg	240
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nnccaaggaa	cccnggtttt	gggcentgga	agggnccttg	gncnnggttt	cgagggnntt	960
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<210> 6

<211> 957

<212> DNA

<213> Homo Sapien

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gcctatgttg	acctcgccg	gcactcaagg	cgtgggcagc	ggcctaacgt	ctgctgcggg	180
aacacagtcg	cgttgaatgc	tattctcaag	acagacaaaa	cagtgggaag	acactacgcc	240
aagctgctaa	ctccctggcc	attgccggac	tctttcaccc	ccatggactt	tccgctggca	300
ttttaaacaa	catagtctct	tttctctgtc	tctttctctt	tccctctctc	tttctctttc	360
tctctctctc	tctctctctc	tctctctctc	tctcaatctc	ataattttct	tctctcgtgc	420
cacgttccca	cccaacgctc	tctcgcccac	ttctactggg	gcccacttcc	tctcctgctc	480
tctctgtctc	aacgtgattg	actttcttgt	gctgcncagg	acttcttggc	cacgtgcgcc	540
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gaattccagc	aaactggcgg	ccgttactan	tggattcgng	ctccgggtac	ngcttggggg	720
aatcatggtc	aatanctggg	ttcctgtggg	naaattgggt	ntccggctca	mnaatttcaa	780
nannanatan	naagcncggg	aancataaan	ttgttaaagc	ccnggggttc	cctnaatnan	840
tttgncttan	tnhaacntta	aattngngnt	ttnnncnncan	annngcngnt	ttttcaattc	900
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<210> 7

<211> 1024

<212> DNA

<213> Homo Sapien

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<223> n = A,T,C or G

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cctcagcctc	cccagtagtt	gggactacag	gcgtgtgcca	ccacaccggg	ctaatttttg	180
tattttgcagt	agagacgggg	tttcatcatg	ttggccaggc	tggctctgaa	ctcctggcct	240
caagtgcac	gcctgcctca	acctccaaa	gtgctgggat	tacaggcggtg	agccaccgca	300
cctggcctct	atgctcgaat	ttctactctt	agctaattctc	tctaacacat	atgcccttca	360
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agaagtgata	caaaatcttt	ttttttttct	tgaacaggat	ttttaactca	gacagtgtaa	540
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ccaagгнаат	ggaatgtcaa	aagtattgga	gcctaattta	aaatggggnt	tcctantaa	900
agntttgctt	tcanttaatg	ggancanttg	gcnanntggt	tttgggnacc	cctgcataat	960
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cccg						1024

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<212> DNA

<213> Homo Sapien

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<223> n = A,T,C or G

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ngcngnnggn	ntnctnttgg	agagntnngn	ngctnanctg	ctatgntctc	ntggatnnnc	180
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tnantgctat	ncattatnnn	gnntgcatat	ntantctnna	nngccnncaa	ggcatcgeng	300
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aagcttttct	tcnccaccct	tctatcttga	acttncanac	gtttccggaa	acnccaanga	900
nngttaccac	ttgccngacc	taaaaaacnc	tgttcacgaa	nttnaacttn	ggatttngga	960
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<210> 9

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

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<222> (1)...(1024)

<223> n = A,T,C or G

<400> 9

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cagcctccca	agtagctggg	attgtaagag	tatgccacca	cgcccagcta	ctttttgtat	180
ttttagtaga	gacagggttt	catcatgttg	gccaggatgg	tctcttaact	cctgccctca	240
agtgatccac	cagagaggag	atcctcggcc	tccccaaagt	ctgggattat	aggcatgagc	300
caccgtgccc	agcctacttt	ctaattaacc	aaaaaaaaaa	aaaaaaaaaa	aaaaaaagcg	360
gccgtggaat	tctattctag	aattaagcgg	ccgtggaatt	ctagacctgc	ccgggcggcc	420
gctcgagccc	tatatgtagt	cgtattagga	tggaggggcg	aattctgcag	atatccatca	480
cactggcggc	cgctcgagca	tgcatntaga	gggcccatt	cgccctatag	tgagtcgtat	540
tacaattcac	tggccgtcgt	tttacaacgt	cgtgactggg	aaaaccctgg	cgttacccaa	600
cttaatcgcc	ttgcagcaca	tcccccttcc	gccagctggc	gtaatagcga	agaggcccga	660
ccgatcgnc	ttccaacagt	tgcgcagcct	gaatggcgaa	tggacgcgcc	ctgtagcggc	720
gcattaance	gccggcgggt	gtggtgggta	cncgcancg	tgaaccgnta	cacttggcan	780
ggncctacgg	cccgnttcc	ttcgctttct	ttcctttcct	ttnttggnga	cgtttcggcc	840
gggttttccc	cggtnaagct	nttaaattng	ggggttccc	ntttangggg	tcccgaantt	900
anngccttta	acgggacct	ggancccaa	aaaactttgg	tttanggggg	angggttcac	960
cgtaannngg	nccatttgcc	ctggntaaac	nggttttttc	ccccnttgac	nttgggnanc	1020
cccg						1024

<210> 10

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 10

gccgtcnaga	nccatgcnnn	agcngcggc	ngtgnatgg	nnanntgcag	aanacgncc	60
ncnatectaa	tacgactcac	tatagggctn	gagcggncga	ccggacagng	ntnnnggtgg	120
ctnatgccta	naatcccagn	acttggggag	gccnaggatc	tcctntntgg	tgatcactt	180
gagggcagga	gttaanagac	catcctggcc	aacatgatga	aaccctgtct	ctactaaaaa	240

tacanaangt	agctgggcgt	ggtggcatac	tcttacaanc	ccagctactt	gggaggctga	300
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgag	tgggcccaaga	tcacaccact	360
atactctaaa	gggcgaattc	cagcacactg	gcgnccgtta	ctagaggatc	cgngctcggg	420
nccaagcttg	gcgtaatcat	ggacanagct	gttnccctgtg	tgaaatgggt	aancgctnac	480
aanntnacac	aacatacnag	ccggaagcat	aaagngtnaa	gcctggggng	cctaatagag	540
gagctaactc	acattaattg	cggttgcgctc	actgcccgt	ttncagntcg	ggaaacctgc	600
cgtgccagct	gcattaatga	atcggccacg	cncnggggag	aggcggantg	cgaatgggag	660
cttcttncgn	ttctcgctta	ctgactngat	gcggttcggc	ccattgnntg	cagcaaagcg	720
gnatcngctc	acttnaaagg	cnggnaatnc	cggttntccc	chtgaatccg	ggggattacc	780
gcaggtnaag	aaccatgggg	anccaaaagg	ccagctaaaa	gggcccgga	acccggaaaa	840
aaggcccngt	tggttggcgt	tttttcanaa	ggttccgccc	ccttgaccgn	ngcnttacia	900
aaattnggag	gcnttaaggt	cnnaantggg	ggaaaccccc	cgggaaattt	caggntnccc	960
nggggtttcc	cctgggaagt	tncttngggg	gctttccnnt	tcnaaacctg	gcgnttaccg	1020
gnaa						1024

<210> 11

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 11

gtncgtctag	atgcatgtc	gagcggccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
ttgagcggcc	gcccgggcag	gtacgcgggg	gggcatttcc	ctgacgactc	gtgtgtgccc	120
tggggggagcg	gtagatggcc	cagccccaag	tggtccgagc	ttcctgcccc	aacatattct	180
gtgacggaaa	gcctatgttg	acctcgcccg	gcactcaagg	cgtgggcagc	ggcctaactg	240
ctgctgcggg	aacacagtcg	cggttgaatg	tattctcaag	acagacaaaa	cagtgggaag	300
acactacgcc	aagctgctaa	ctccctggcc	attgcgggac	tctttcaccc	ccatggactt	360
tccgctggca	ttttaacaaa	catagtctct	ttctctgtgc	tctttctctt	tctctctctc	420
tttctcttct	tctctctctc	tctctctctc	tctctctctg	tcaatctcat	aatttctctc	480
tctcgtgcca	cgttcccacc	caacgctctc	tcgcccactt	ctactggggc	ccacttctct	540
tctcgtctct	tctgtctcaa	cgtgattgac	tttcttgtgc	tgcccaggac	ttcttgccca	600
cgtgcgcctt	caaaacggta	agagctgcaa	ctgaacgtgt	ganacatggt	gcagataggc	660
tgagaggcng	cgggaaaaat	gcccataaaa	ctcaaagtac	tcnngccggc	gancacgcta	720
angggngant	ttcaagcaca	nnctggcggg	cgttactaan	tggattcgaa	cctccgggtac	780
caaaagcttg	ggcgtaatac	atgncaanaa	gccgttttcc	ngtnttaaat	ttgttnancc	840
gctcananat	tccanacaan	cnattacnan	gccgggaaan	ccaanaaagt	tgttaaaacc	900
ctgggggttg	cnnaatgan	ttgangctaa	ntccnnttga	atttncnttg	cncnaaangg	960
ccggtttttc	cattcgggaa	acctgtncgt	ncgaanctgn	atttantgaa	tcgggcaaac	1020
tccc						1024

<210> 12

<211> 957

<212> DNA

<213> Homo, Sapien

<220>

<221> misc_feature

<222> (1)...(957)

<223> n = A,T,C or G

<400> 12

actttttttt	tttttttttt	tttttttttt	tttttagctt	tattttttatt	gttgacacta	60
ttacagatag	aatgaccaca	accatattaa	caaaccacaaa	acctgtgcac	agaaacaaga	120
tgaagaaaat	atatcaagat	gttaaccaca	ctctttggat	ggtgaaaaca	tgggtgagtt	180
tctcttctac	atttctgtaa	cttcaaagtt	tctataatga	acacatttca	tatataatgg	240
aaatatatgt	agtaaagggt	gactacacaa	acactagaat	gatgaccttt	caaggaaacc	300
gaaacaaaat	aaccataatc	ccacaacaac	cacacaacta	tttcttgttt	ttcatctttc	360

ttcccatctt	tgacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagtg	420
cacagatcaa	gatgttaaca	gttaattggt	gttgggtggt	gggaatatgt	gtgaattttc	480
tttactgaat	ttccaaagtt	ttgtatgagt	atgtantata	tttgtaatgg	aaaatacata	540
cataagaatt	tantacaaa	nacaccaaag	attatttaag	gaatttgaga	caaaaatatt	600
tanccaaatt	cccacaatga	caacaccaan	tttaggtant	ttccacatct	ntttcaaatt	660
taanggcctt	angcacacat	attttaacac	tggtanccac	aagcngtggt	gcnccggaan	720
caannngntg	agggaacca	ggtncaggga	tggtanncan	taagttgtta	anggggttgg	780
gaanannngn	aattttttta	aacanattta	cnttaanttt	ccaagttttt	ccnccgggga	840
anntttttng	gccaccaatg	ggggncccc	nttatancn	ngtnanccgg	ggacattttt	900
tnnnnggggaa	atttnganaa	atttagagtg	ngaaangntt	tttacccean	agtnccn	957

<210> 13
 <211> 1020
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1020)
 <223> n = A,T,C or G

<400> 13						
gtgngtctag	atgcatgctc	gagcgccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
ttcgagcggc	cgcccgggca	ggtacccagg	attcaaaagt	catcttcccc	ggcgggaggg	120
aagggacgct	tatggagaac	ctcttaaaga	tattgtgagc	attctactca	ttacttaggg	180
aaagagagcg	ggtgttggtc	caactctggc	ttttgtgcca	ggtaggagtt	ggtcctgagg	240
ccgcccattc	gaccatactg	gacctgtttt	aagggtttttc	tctaaaaaaa	ttttagattt	300
gtcaatctgt	gctcctgcag	gggatgctat	gtccaaatgt	cccaggattt	gtttttttct	360
gtctttcctg	agacattccc	tgcccagcta	cccaaggaat	ccttcaaacg	agcaaatctg	420
accataatct	ctatggtcag	attaaaatct	tccatggctc	cctattgctt	atgggacaaa	480
atcaaaattc	ctgagtctgg	tctaaaaggt	gtttgatgat	cttgacctgc	tgactttgcc	540
agccttcttg	tcagactctc	gtgtcatgct	ccgcctagac	tatgagcctg	ctatttcata	600
ctatgtagct	ttgtaaagtc	ccagaaaatg	ctgggctctg	actcttttat	aactttacat	660
atactgttcc	atctgcctgg	aatgccttct	acttgtctgt	ccagcaaatt	ctcaactcat	720
ctcttaaggg	cccagcttca	attgccgcct	cctancataa	gtcttccctt	gatttcccan	780
gcagnaatta	nntcccgct	acccggggga	ntcccaatca	gtttgtgctt	tcaaaactga	840
tggnnngact	tccctgaaat	ttgggttacc	ncaaaacgaa	atgggtgaat	ccnnttcccc	900
cgggggggct	gcaattgcac	ccttttttaa	aggggaaccc	tgnaantccc	aatggnttaa	960
atttgacncc	cttaanggcn	tnanttcnat	tgagcaactt	naaaaggggt	tttttttttt	1020

<210> 14
 <211> 1013
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1013)
 <223> n = A,T,C or G

<400> 14						
gtgtcgatgc	atgctcgagc	ggccgccagt	gtgatggata	tctgcagaat	tcgccctttc	60
gagcgccgc	cggggcaggt	acctcattag	taattgtttt	gttgtttcat	ttttttcnaa	120
ngtctcccc	ctacnagctc	acctgagata	acagaatgaa	aatggaagga	cagccagatt	180
tctcctttgc	ttctngctca	ttctctctga	anectaggtt	acctattttg	gggacccatt	240
ataggcaata	aacacagttc	ccaaagcatt	tggacagttt	cttgtttgtg	tttanaangg	300
ttttcctttt	tctnancctt	ttcctgcaaa	aggctcactc	agtccttgc	ttgtcantg	360
gactgggctc	cccagggcct	aggctgcctt	cttttccatg	tcccacccat	gagccctcna	420
ctagacagct	cantaagcct	ggccttcat	tctgctgtgt	gttcttctc	ngtgaaaatc	480
caatacctct	tacctctct	gcatgcaaag	attctcaagg	attgtcagac	ttcaaacgta	540
acagcagaac	caccagaagg	tccnataaat	gcagtagtga	ccttctcaag	ctgtcaggtc	600
tttaaatag	atttgggatt	taatgcnatg	tattttttaa	ggaaagaaat	aagagttgcn	660

agtttaaaaa	tgcatgtctt	ttagccaatt	cagaatcctg	ccccaaaact	tttttaaaaa	720
gtcaagacag	ataaagcttt	ggggganacg	gaaaaaaann	gnnnaaaaaa	anaaagtact	780
tcgggcggn	acnacgctaa	gggnnaattc	agcananggg	gggccgttac	aagnggggttc	840
nanncgcgg	acnaancctt	gggggtttta	caagggcnaa	ancnggttnc	cggggntnaa	900
aattgttacc	cgcnaaaaat	tccanaaaaa	natncgaacc	cggaaancca	taaaantntn	960
aancccnngn	ggccnaaggg	agnngnnnaa	cccaataaaa	tggnttggn	cnt	1013

<210> 15

<211> 951

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (951)

<223> n = A,T,C or G

<400> 15

accctagggc	aaatactgag	cagggtaaaa	ttcccagaat	accactaga	agcgtggaat	60
atatcaatat	cctaggaaga	agattcagca	caccaaattt	cccattactg	ataacagctc	120
tgaaggcata	ataagaaagt	gagtgatcag	aagagcagag	aaatgacttg	ttccagtcac	180
tgccatcttg	tttacccttt	cagtggttcc	cttacccttt	tccccactgg	gcatacagct	240
catctctctc	tgagtccttt	tctgctttcc	tcctttgctc	taaacgttcg	agtttcaa	300
tcctcttacg	accagactta	tctcgaaata	cggtttcagc	atattgaaat	tcagctgcaa	360
aggaaaatta	tactcaaata	tcaggatcaa	aatcagaaat	aacattctaa	gagatcaa	420
caaccgcttg	ggattctaat	gctagataag	aacttctgca	gccagaccaa	agtagttcct	480
accaacatct	tggtgcatat	tggcactggg	cccaagaaat	ggcattttcc	tttttttttt	540
ttttgagatg	gagtcctact	ctgttgccca	ggttggagtg	cantgggcgc	gattttggct	600
cactgcaacc	tccacctccc	aagggtcaag	cgattctcct	gtctcaagcc	tcctgagtna	660
gctggggaat	acagggcata	cnacancatg	cctggctagt	tttttttttg	gaattttggg	720
tagagacagg	ggtttcatca	nggttngccc	aggcctggtn	cttggaactn	anagaccctc	780
aggntggatt	gcacccaact	tccgggtcat	caaaaggtn	ncgngggatt	acangcattt	840
anncaacngn	gccctngggc	naaaatggna	anttttcang	aagggaagc	agcnnatggg	900
atcccnngnn	naantttcac	caaggcctta	aaccagggnc	gtaaatttgt	t	951

<210> 16

<211> 1008

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (1008)

<223> n = A,T,C or G

<400> 16

gtgcgatgca	tgctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcgcccgcc	cgggcaggta	cattacttgg	tgtaaacatt	gttggcagtg	gtagccctt	120
ttcagaaagc	aacttgctgt	aagtcagggt	gtccgttcca	accttcagct	agtgaaggg	180
tagtaacaaa	tggtaaacaa	gagaatgatt	gtttaaacct	atctgtggac	acttaatgca	240
actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	gaaatatatt	tacagaacat	300
taagtggaga	aagcaggaca	cgaaagtata	tttatactac	agttataact	caacagttca	360
tttatatgct	gttcatttaa	cagttcattt	aaacagttca	ttataactgt	ttaaaaatat	420
atatgcttat	agtcaaaaagc	tggttggttg	ttgttggttg	aggcttatag	ttgagcatta	480
ttttctttaa	tttcttgaat	gttcttttat	gtagtgttac	taaaaagttt	atgatcacat	540
tttcatgttg	aacataattt	gaactcata	tcacacactt	ggaaaatata	gaaaagtgga	600
ggaaaaaaa	tcatacccc	ancatccaaa	gacatatact	ctcctcttat	cctgttcaat	660
cctggtttcc	ggtgcacaag	gtttatgatt	ataactgtgt	caaaatgtat	aatcaaaaat	720
gctgttacat	taccttggtg	gnantaaggg	taaatacctt	caccttaaat	ttttcaaaan	780
gttcccaana	ataaagggtc	ggataacagt	ggtataagtg	tgtcccaatt	gggggtgcan	840
aatacattcc	cangngggaa	aatttnnaaa	tnaagttaaa	ttatttttaa	aaatttccaa	900
aattcccaan	anctaanaac	taangggnaa	aaacctngat	cgggntnccc	caaacnngtt	960

taantgnnac nccttgggaa aanaagnttt aaaaanggtg gcaaaaag

1008

<210> 17
 <211> 1024
 <212> DNA
 <213> Homo Sapien
 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 17
 gtgntcttag atgcatgctc gagcgccgc cagtgtgatg gatattctgca gaattcgccc 60
 ttttnanagg nccgncgggc angnantctt cccnccntng ccatnannca cggnnanaan 120
 cngcagtggc actaantntg agacaatctt ncaaaccagc ttcattgtgc tncacttntc 180
 nnngtncag angagggcca ggangggaaa catcacantc gcgctaagnc cngntccggg 240
 nngtcagcat nngntctgtt ncaanncccn cngtcgggtcc cctcatccta ctctgcctcc 300
 natgactttg cncctcagac ntentggaac naaggnttcc ngggggggcac accgcgtccg 360
 gccgnnnntg tctcggggcc acttggcggtg tgtgataaat caatcaagct gttanantcg 420
 nacgagtctc nggtngcctg cananntaag cctcatcatc agagcctttc ctcaaaactg 480
 gantcccana tgtcatcagg ttntgttnt tttcagccan naggaagccc tcnngcattga 540
 atccnagaac ttgggcatgg ttnaagatct acaagntnga atacgtgcc cgcnanaanc 600
 nttcaaccct aacaggaagg tnggattcaa ggaagggtgta anggnncatt annccacncg 660
 ggggnacca gggagntana antanncatn nntttgggtt cggccnccga aggnnttaa 720
 cccccgaat tnnntttng ntnaaggggg gnnnnnggna aatcccngtt cncatttgg 780
 gaaagggann ccttnccttn cnntnggcct ntaaaagnnt tancaanacc cgnnatnntg 840
 ttnangggcc cgnttttcaa nggggttaan nnttngggg aacccccnc cccaaagnng 900
 gnnnaanggg ggaattccc aanaaaacng gggggnncc tnnnnnang gnttcngnnn 960
 cccnnaaagg nnncttggg ggnnannann gnnnnaaaaa gggttcccn nnnnaaattt 1020
 tttc 1024

<210> 18
 <211> 981
 <212> DNA
 <213> Homo Sapien
 <220>
 <221> misc_feature
 <222> (1)...(981)
 <223> n = A,T,C or G

<400> 18
 acgcgggaca gagagaagg taagagcaac aagatgggag gcagctgcat ggaacctgtc 60
 ccactgagga agtaaaacag agttttactc ttgttgccca ggctggagcg caatgggtgcg 120
 atctcggtc accgcaatct ctgcctcctg agttcaagcg aggagcaacc ctacctgatg 180
 gactggactt ctgcctggat tggagtttga tcatgcctcc atatgggtgt ttaccaggcg 240
 tatgcattga acctgagttt gtctcttcaa tacaaggaaa atctctgccg cttagtgtt 300
 ttccaagaaa catgagcttc tgcctttcaa tgaggaagat actcagaagt catgttcgag 360
 cactccggaa aatgtccttg gagtttcaac atttcttttg tcttccacat ttcattttgt 420
 cctgattaaa gaggaagcca agttgtctgt tgtgtggcca tgtgagcagg canggagatg 480
 gtggctgcct agaagccaag agaagtggcc tcaagatgaa atctacctg ctggtactgc 540
 ccggggcggc cgcccgggca aggtacnttt tttttttttt gttttttttt ggcaaaaagg 600
 ctgtaaagct tttttgggga gaaattttta tgggncaaan tttccaacac aggnagcanc 660
 cctgaaacca attttaagcg ggtccttccc ttttaaggct gttnaattgc cccttcaanc 720
 ttctcaagg ngtttttcac cctccnccg ggattttggg aaaggcccaa aantcctngg 780
 gnaanaagg gacaatctcc cgggnttaaa aaccaattnt ncggggngna accnggttcc 840
 ctgggctann cncctttaan ggntnccggg gcccttttgn gggggnaatt ttcaaacggg 900
 ncctncattt tctnaggggg naancncct tngggtcann gggncnann cccaagnctt 960
 caaanccnaa ntcttttggg g 981

<210> 19

<211> 980
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(980)
 <223> n = A,T,C or G

<400> 19

acttttttct	tttttttttt	tttttccgtc	tccccaaagc	tttatctgtc	ttgacttttt	60
aaaaaagttt	gggggcagat	tctgaattgg	ctaaaagaca	tgcattttta	aaactagcaa	120
ctcttatttc	tttcctttta	aaatacatag	cattaaatcc	caaatcctat	ttaaagacct	180
gacagcttga	gaaggtcact	actgcattta	taggaccttc	tgggtggtct	gctgttacgt	240
ttgaagtctg	acaatccttg	agaatctttg	catgcagagg	aggtaagagg	tattggattt	300
tcacagagga	agaacacagc	gcagaatgaa	gggccaggct	tactgagctg	tccagtggag	360
ggctcatggg	tgggacatgg	aaaagaaggc	agcctaggcc	ctggggagcc	cagtccactg	420
agcaagcaag	ggactgagtg	aagccttttg	caggaaaagg	ctaagaaaaa	ggaaaaccat	480
tctaaaacac	aacaagaaac	tgtccaaatg	ctttgggaac	tgtgtttaat	gcctataatg	540
ggtcccaaaa	atggggtaac	ctagacttca	gagagaatga	gcanaganca	nagggagaaa	600
tctggctgtc	cttccaattt	tcaatccgtn	atcccagggtg	aagctgggta	ngagggggag	660
ancattngna	naaaaatnga	aacaacanaa	nccagtttac	taaatnaagg	gaacctgccc	720
cngggcgggc	cnccaanggg	ccaaatttca	ancaacanng	ggcgggcccg	ttaccaantg	780
gnattccgaa	gcncgggta	accaangcct	ngngttnaat	ccagnnggnc	aaancngtt	840
tnccngngt	gnaaattggt	tancccgccc	naanaattcc	acancaacga	atcngaagnc	900
cgggcnagca	tnnangnta	aancccgngg	ggggcncaaa	aggggaatgnn	nccanaccn	960
attaaatnctg	gttgccctg					980

<210> 20
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 20

cttggtaccg	ngctcggatc	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggccgcggg	caggtattca	gcggccgctt	120
tttttttttt	tttttttttt	tttttttttt	attgntgaca	ctattacaga	tagaatgacc	180
acaaccatat	taacaaacca	aaaacctgtg	cacagaaaca	agatgaagaa	aatatatcaa	240
gatgttaacc	acactntttg	gatggtgaaa	acatgggtga	gtttctcttc	tacatttctg	300
taacttcaaa	gtttctataa	tgaacacatt	tcatatataa	tggaaatata	tgtagttaaag	360
gnggactacc	aaaacactag	aatgatgacc	tttcaaggaa	accgaaacaa	aataaccata	420
atcccacaac	aaccacacaa	ctatttcttg	gttttcatct	ttcttcccat	ctttgacatt	480
tatgcatact	tatcactaac	accctaataa	tcacagacta	gtgcacagat	caagatgtta	540
acagttaatt	gttggtgggt	gttgggaata	tgtgtgaatt	ttctttactg	aatttccaaa	600
gttttgtag	agtatgtatt	atatttgtaa	tggaaaatac	atacataaaa	tttattacca	660
aaacacaaa	gattatttaa	ggaatttgag	acaaaatatt	taaccaaatt	cccacaatga	720
caacactatt	ttaggtattt	tccacatctt	ttcatttaag	actttatgcn	cncatattta	780
acactgggat	ccacaagcgt	gtgccctgaa	accaggatan	nggggaaacn	ngatcaagat	840
gttagccagt	agtttggtag	gnggttgagg	aatatagggg	atTTTTtnaa	aaaaatttac	900
tttatttnen	aaattttccc	cttgggnaag	ggattatggc	ncnccaangg	gngccccctt	960
aaanacnctg	gttttcngga	cctttttttt	nggggaccat	ttggaaaaaa	ttaangggga	1020
aggt						1024

<210> 21
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (1024)
 <223> n = A,T,C or G

<400> 21

nagnngcang	cncgagcgcg	cgccagtgtg	atggatatct	gcngaattcg	cccttcntan	60
cngnngncac	tnaatgcang	ngcnnaacca	tgataacccg	agttatgctn	agcanaggaa	120
ctatatgtac	agaaacatta	agtgnngaaa	gccnnacncn	anggnanntg	aatactacng	180
tnataactna	ncagaccatt	nanatgctgc	acattttaaca	nnncntncan	acagnanatt	240
ataannngnt	ananntatat	atgctnatng	accaaagctg	tngaggggtn	gccgttgaag	300
gcnnnnngnt	nagcattanc	atnttacnnc	acttgccctgn	cctntatggc	agggttacta	360
tctttgttac	tgatcacgac	atcantgcga	acntaanaacn	aacncnntat	nacacactng	420
mnanagcccg	aatcgngnng	gaacagtatc	ntntcncnc	cancncnaga	catntncnnn	480
cctcttatcn	tgancattcn	agnttctgtg	cacaggntna	tgatnntanc	ngtgncaaan	540
tgnttcttna	aantanttgc	cacatnacct	tngaggantt	atggannaan	actctcactt	600
taaanccnnc	aancgacccc	nanaanactg	tinctgntaac	agtgcanaat	gtgtgatttc	660
atagttntgc	acacacatnc	ccacnggaan	cacaggcgctg	tgactgaac	attntagagg	720
ntacctatct	gccgacacct	aacactacng	gtnacggcaa	gatcggaacc	tntaannggg	780
ttaacncaaa	cnctagggat	accnngggaa	atatgtggcc	caccgtttaa	acccccgaag	840
tgccngtacc	ccnggacatt	gttttcgtgn	cggtanttgg	gttaaanntg	ggntnaaaac	900
cctaattccc	cctgggggtt	tgccactaaa	tttgaaggac	cttttggccc	tgccaaaatc	960
annaaccctg	gcncanaact	ttgggggganc	nggnnaggna	gggtnnccct	ttttttccga	1020
aggc						1024

<210> 22
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (1024)
 <223> n = A,T,C or G

<400> 22

gtgcgatgca	tgcnegagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcggccgcc	cgggcaggta	cttttttttt	tttttttttt	tttttttttag	attccacata	120
tgagtaaaat	catgtggtat	ttgacttgcc	ttttaaaaaca	cagtgaagaa	tctgtcttac	180
tttattcagg	gtaggagaag	ctacctgggc	tccccataaa	tgagggtgctc	catcccatca	240
tacagcccca	tcatattcag	tgcttcccag	atgacctcct	caggggtgca	gtagccctct	300
atgaagatta	tgcttaggat	aagtatgaga	atgccagtct	tgggcatgct	ctggacatca	360
ctcagcatcc	catcataggt	gaggcccagg	gagggtgacaa	ggacaaagga	gtggccagtg	420
ggatccactt	cctttacatc	aatgccaaag	accagcagca	tgactcggga	ggcttcacta	480
aacaacaaag	ggaagtggtc	ttcataattt	tttatgacac	tctccaagta	tttctgcctt	540
tgtgatcggc	tcttccattt	gatacttgaa	gagcagaaac	tgacacaaat	cagtcacctt	600
ttcatctatc	tcacttctgg	gtaaagactc	actgtctggc	aaggacctgg	taggggtgctt	660
gggactcccc	tccttttggc	tgcnnggagnc	ctcancagat	tgatctaattg	gaagggaac	720
aacgaccna	ggggaaggag	cagggctatc	tngagcaacn	ctggggaagg	atttggggtc	780
nccatcatca	ngcagnaaac	tccctcccgg	gggtnccttg	ggnanttaaa	gggatnccca	840
ggaaggagga	nggaggggaan	agggaggang	agggaaaaac	naggntngga	aaaagggaacn	900
cgnggggaaa	ttggggntta	tacaccgccn	ncnnnaannn	ggggngagnc	ngnngnccng	960
tcngngncnn	gnntccnntt	ggnggaagnn	ggnttctcnn	angggncgnn	nnnnnnnnnc	1020
cnnt						1024

<210> 23
 <211> 948
 <212> DNA
 <213> Homo Sapien

<220>

<221> misc_feature
<222> (1) ... (948)
<223> n = A,T,C or G

<400> 23

actttttttct	tttttttttt	tttttccgtc	tccccaaagc	tttatctgtc	ttgacttttt	60
aaaaaagttt	gggggcagat	tctgaattgg	ctaaaagaca	tgcattttta	aaactagcaa	120
ctcttatttc	tttcctttaa	aaatacatag	cattaaatcc	caaatcctat	ttaaagacct	180
gacagcttga	gaaggtcact	actgcattta	taggaccttc	tgggtggtct	gctgttacgt	240
ttgaagtctg	acaatccttg	agaatccttg	catgcagagg	aggtaagagg	tattggattt	300
tcacagagga	agaacacagc	gcagaatgaa	gggccaggct	tactgagctg	tccagtggag	360
ggctcatggg	tgggacatgg	aaaagaaggc	agcctagggc	ctggggagcc	cagtccactg	420
agcaagcaag	ggactgagtg	agccttttgc	aggaaaaggc	taagaaaaag	gaaaaccatt	480
ctaaaacaca	acaagaaact	gtccaaatgc	tttggggaact	gtgtttattg	cctataatgg	540
gtccccaata	tgggtaacct	agacttcaga	gagaatgagc	agagnagcaa	aggagaaatc	600
tgggctgtcc	ttccattttc	attccgttaa	cctcaagggtg	anctggtaaa	aggggagaca	660
ttagaaaaaa	aatgaancaa	caaancaatt	actaatgang	tacctgcccg	gggcggccgc	720
aaagggcgaa	ntccaagcac	acngggcggg	ccgttacaan	tnggatttcg	aaccgggtac	780
caaancttgg	gngtaaanca	ngggnaana	acgggnttcc	cgggggtgaa	aantgtttat	840
ccgccccaaa	attccaaaaa	ancaatanga	aaccggaaan	cataaagtnt	taaaccctgg	900
ggggggccca	aangantgag	ccaaanccca	attnaattgg	gttgggncc		948

<210> 24
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

<400> 24

taccgccctc	gcattccctag	taacggccnc	cagtggtgtg	gaattcgccc	ttcctatctg	60
tggacactta	atgcaactgt	ttaaaaatga	taatcacgag	ttatgtagca	acgtggaaat	120
atattttacag	aacattaagt	ggagaaagca	ggacacgaaa	gtatatttat	actacagtta	180
taactcaaca	gttcatttat	atgctgttca	tttaacagtt	catttaaaca	gttcattata	240
actgttttaa	aatatatatg	cttatagtca	aaagctgttg	tgggtgttgt	gtttagaggct	300
tatagttgag	cattattttc	ttaaatttct	tgaatgttcc	ttatggtagt	gttactaaaa	360
agtttatgat	cacattttca	ttgtgaacat	aatttgaact	cattatcaca	cacttggaat	420
atacagaaaa	gtggaggaaa	aaaaatcata	tccccaccat	ccaaagacat	atactctcct	480
cttatcttgt	tcattcttgt	ttctgtgcac	aggtttatga	ttataactgt	gtcaaaatgt	540
atattcaaaa	tagctgttac	attacctttg	tgggaattatg	gttaaatact	ttcactttaa	600
ttttttcaaa	tgttccttat	aataatgtcc	tgataacagt	gtattatgtg	tgtctccatt	660
ggtgtgcata	atacatacc	agaggaaaaa	ttagaaaata	aagtaaatta	ttttaaaaaa	720
ttacctatat	tcccaacacc	taacaactac	tgnttaacca	tcttgatctg	nttcctctat	780
cttggttcag	tgcacacgct	ttgngaataa	cagtggttaa	atatgtgtgc	cataaaggcc	840
ttaaatggaa	aagatgtggg	aaaaataact	taanaataag	ggtggccttt	ggggggaat	900
ttggttaaaa	aattttgggc	tcnaaaattc	cnttaanaaa	acctttgggg	gggttgggna	960
ataaaaatnt	taanggangg	aatnttcccn	ttccantttt	nattccttcc	tcttcccaaa	1020
actt						1024

<210> 25
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

<400> 25

gccgtcnaga	cncatgcncn	agcgnncgnc	ngtgtgatgg	atatntgcng	aattcgncct	60
tccatcctaa	taogactcac	tatagggctn	nagnnggcc	ctattncnga	tngaangacc	120
acngccatat	taacaaacca	aaaacctgtg	cacagaaaca	agatgaagaa	aatatatcaa	180
gatgttaacc	acactctttg	gatggtgaaa	acatgggtga	gtttctcttc	tacattttctg	240
taacttcaaa	gnttctataa	tgaacacatt	tcataataaa	tggaantata	tgtagnaaag	300
gnngactacc	aaaacactag	aatgatgacc	tttcaaggaa	accgaaacaa	aataaccata	360
atcccacaa	aaccacacaa	ctatttcttg	gtnttcatnt	ttcttcccat	ctttgacatt	420
tatgcatact	tatcactaac	accctaataa	tccagactag	tgcacagatc	aagatgttaa	480
cagttaattg	cngntgggtg	ttgggaatgn	gcgtgaattt	tctttactga	atttccaaag	540
ttttgtatga	gnntgtatna	nattttgtaan	ggaaaataca	tacatnaaat	ttattaccaa	600
aacaccaaag	attattttaag	gaatttgaga	cnaaatatit	aacccaaatt	ccacaatgcc	660
aacactnttt	taggnatttt	ccacatcttt	tcntttaaga	ctttatgcnc	cccataatgt	720
aacactggta	tcacaaagcg	tgtgactga	aaccagggat	nnagggaacc	gancaagatg	780
ttncnagnag	ttgggtangng	gatnggaaaa	taggnaatit	ttaaannaat	tnacttttat	840
ttccnanatn	tccctttggg	gatgncttat	gcnccccat	gggggncccc	ctttanance	900
ctggtaatca	nggccttttt	ttttggggaa	cttttggaag	aaanttnaag	gggaangttt	960
ttaccataa	tttcccaaaa	ggnanggggn	acnctttttt	ggaanatcct	ttnggcncct	1020
tttn						1024

<210> 26

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 26

gtgcatgca	tgcnagagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcggccgc	cgggcaggta	cttttttttt	tttttttttt	tttttttttag	attccacata	120
tgagtaaaat	catgtggtat	ttgacttgcc	ttttaaaaca	cagtgaagaa	tctgtcttac	180
tttattcagg	gtaggagaag	ctacctgggc	tccccataaa	tgagggtgctc	catccccatca	240
tacagcccca	tcatattcag	tgcttcccag	atgacctcct	caggggtgca	gtagccctct	300
atgaagatta	tgcttaggat	aagtatgaga	atgccagtct	tgggcatgct	ctggacatca	360
ctcagcatcc	catcataggt	gaggcccagg	gaggtgacaa	ggacaaagga	gtggccagtg	420
ggatccactt	cctttacatc	aatgccaaag	accagcagca	tgactcgga	ggcttcacta	480
aacaacaaag	ggaagtggtc	ttcataatit	tttatgacac	tctccagtat	ttctgccttt	540
gtgatcggt	ccttcatttg	atacttgaag	agcagaaact	gcaccaaatac	agtcaccttt	600
tcatctatct	cacttctggg	gtaaagactc	actgtctggc	aggacctgta	gggtgcttgg	660
gactctcctc	cttttggtctg	ctggagccct	caacaagatt	gatctaattg	gaagggaac	720
caaccnaccg	aangggggang	gagcaggctn	ttctgaagca	ctctggggga	aggatttttg	780
ngtnncnat	catncagcan	gnaaacctcc	cncgggggt	gccttgggna	ttananggtt	840
agcaaggang	gaggacgnag	gaananggan	gnangnaggg	aaaaagangg	attggaaaaan	900
agggancctn	ggtgggaaat	tgggtttttt	nagcaatccc	ccnccaaaaa	ncnaggggaa	960
ccctgttcaa	cccncanggc	cnggnttcca	cttttggaat	ttgaaanttt	cctcaaggaa	1020
ngaa						1024

<210> 27

<211> 935

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(935)

<223> n = A,T,C or G

<400> 27

acgcgggggtg	gggggggtcc	tgggtctttgg	cttctcgact	cggctctggt	togacagcga	60
-------------	------------	-------------	------------	------------	------------	----

acatgtcgcg	gcctgtcaga	aataggaagg	ttgttgatta	ctcacagttt	caggaatctg	120
atgatgcaga	tgaagattat	ggaagagatt	cgggccctcc	cactaagaaa	attcgatcat	180
ctccccgaga	agctaaaaat	aagaggcgat	ctggaaagaa	ttcacaggaa	gatagtgagg	240
actcagaaga	caaagatgtg	aagaccaaga	aggatgattc	tcactcagca	gaggatagtg	300
aagatgaaaa	agaagatcat	aaaaatgtgc	gccacaacg	gcaggcggca	tctaaagcag	360
cttctaaaca	gagagagatg	ctcatggaag	atgtgggcag	tgaggaagaa	caagaagagg	420
aggatgaggc	accattccag	gagaattccg	gcagcgatga	agatttccta	atggaagatg	480
atgacgatag	tgactatggc	agttcgaaaa	agaaaaacaa	aaagatgggt	aagaagtcca	540
aacctgaaag	aaaagaaaag	aaaatgccca	aaccagact	aaaggctaca	gtgacgcca	600
gtccagtga	aggcaaaang	aaaattnggt	cgccccacag	cttcaaaggc	atcaaaanggg	660
aaagaatccn	tctccaaaag	aagaaagatg	aggggaaccgg	aaaaccccc	agaaaaggaa	720
aacatctana	agccccccaa	cccagaaaatc	tggggataaa	ggggctgaaa	aataaacccc	780
cntttgggga	agnttttaaaa	ttatgaangg	nctggggaaa	aaattttttt	aaaaaannnn	840
nnnnnnnnna	aaaaaanttt	cctgcccggg	ggggcgccnc	naaaggggga	anttcaanaa	900
aaangggggc	ggtttaaaaa	ggggtttcca	ccccn			935

<210> 28
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

cttggnaaccg	ccctcggtac	cctagtaacg	gccgccagtg	tgctggaatt	cgccttccct	60
atctgtggac	acttaatgca	actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	120
gaaatatatt	tacagaacat	taagtggaga	aagcaggaca	cgaaagtata	tttatactac	180
agttataact	caacagttca	tttatatgct	gttcatttaa	cagttcattt	aaacagttca	240
ttataactgt	ttaaaaatat	atatgcttat	agtcaaaagc	tggtgtggtg	ttgtgtgtgt	300
aggcttatag	ttgagcatta	ttttcttaaa	tttcttgaat	gttctttatg	gtagtgttac	360
taaaaagttt	atgatcacat	tttcattgtg	aacataattt	gaactcatta	tcacacactt	420
ggaaaataca	gaaaagtggg	gaaaaaaaaa	tcatatcccc	accatccaaa	gacatatact	480
ctcctcttat	cttgttcatt	cttgnttctg	tgcacaggtt	tatgattata	actgtgtcaa	540
aatgtatatt	caaaatagct	gttacattac	ctttgtggaa	ttatggttaa	atactttcac	600
tttaattttt	tcaaagtgtc	cctataataa	tgctctgata	acagtgtatt	atgtgtgtct	660
ccattgggtg	gcataatata	taccagagg	aaaaattaga	aaataaagta	aattatttta	720
aaaaattacc	tatatccccc	aacacctaac	aactactgnt	aacatcttga	nctggttcct	780
ctatcttggt	tcaagtgcac	accgcttgng	aataacaagg	gttaaaaaatg	ngngccataa	840
aggtcntaaa	atggaaaagg	atgtgggaaa	aatnacctaa	aaataggggt	ggccattggg	900
gggnaatttg	ggttaaaaaa	tttgggctcn	aaaatncctt	aaaaaaaaanc	ctttgggggt	960
tttgggaaaa	aaaaatttta	ggggagggaa	ttttccattt	ccaaatntta	ntccttactc	1020
ntta						1024

<210> 29
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

taggatncat	gctcgagcgg	ccgncagtg	gatggatatc	tgcnagaata	cgccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggctgcccag	gcaggtgcta	acaaacccaa	120
aacctgtgca	cagaaacang	atgaagaaaa	tatatcaaga	tgtaaancac	actctttggn	180
tggtgaaaac	atgggtgagt	ttctottcta	cntttctgcn	antncanagn	ttctataatg	240
aacacatttc	atatgtaatg	ganntntntg	tagtgnaagg	tggactaccg	gaacactaga	300

atgatgacct	ttcaaggaaa	ccgaancaaa	ntnacntan	tcccacaana	accacannac	360
tattncntgg	tnntnatgtt	tcttcccatc	tttgacattg	atgcntactt	aggactancg	420
ccctaataat	cccagacttn	ggcacagatc	aaganggtaa	cnggtgattg	gagggtgggt	480
gccggaantt	ggggtgantg	ttntttatgg	anttnccann	ttttggtang	ngattgnnna	540
aaattngaana	nggaaacnct	tacttnaant	tgnttaccnn	aacnccnagg	atnttttaag	600
gattnggggc	cnaaattttt	acccaaatte	cnncaangcc	ancnctgtnt	aagtcatttt	660
caaanttttt	tcncttaaag	accttaagge	cccctaaggt	aacctgggaa	tanaaggggg	720
ggcacntggn	accaggntcc	nagggaaacng	nnccaagant	tttccccntt	ntttgtttgg	780
gggttgaggaa	atnnnnngnaa	attttttaaa	ggtaatncac	ttaatttgcc	aaaggaattc	840
ccttngggggg	nggnnttatt	gcncacccat	gggagacccc	cnaaggccc	cnggaataag	900
ggcctttttt	tttnggggacc	atttgggaaa	aattttaang	ggaaggcnnt	ttgnaccctt	960
aatttcccca	aggnaaangg	aaccnccnt	tttgganatt	gcatttttngg	ccccgttttt	1020
aagg						1024

<210> 30

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (1024)

<223> n = A,T,C or G

<400> 30

gtgcgctcta	gatgcatgct	cgagcggccg	ccagtgtgat	ggatatctgc	agaattcgcc	60
ctttcgagcg	gccgcccggg	cagggtacttt	aattttgtctt	gttcaaataga	tctacactta	120
cattttgcaa	atcttttttt	ttaaattttt	taaattttat	attttttttc	cagccaactc	180
aaggccaaaa	aaaattttctt	aatatagtta	ttatgcgagg	ggaggggaag	caaaggagca	240
caggtagtcc	acagaataag	acacaagaaa	cctcaagctg	tgagggtcaat	ttgttaattaa	300
aagaatacta	agattagatg	aacacaacac	tcagaaatac	tctaggagag	ctgaaaaaga	360
aggaacagat	gttaacaaaa	caaattaagg	ctgctgggga	acctgagtcc	atgttaagct	420
tgggttgact	gtaaagaatt	tttttttttt	taatgcaagt	tagacatgga	gttagagggt	480
cagataaata	acgaagagaa	ttaagttagc	gatagaaaaga	tctaaggata	ctagctcctg	540
ggcacctagg	gtgcaaaactg	acttgtggca	gcataagctg	atgctgcaca	ggggacccaa	600
gccatgttgc	tacttgtcac	ttaaggcang	aagcgcacaa	aggaagtgat	gaaagggtat	660
tagcctgcaa	cattattttac	agcatganag	cctctcctac	gggtcccaac	cttcattagg	720
cactacttgt	gattcaagtg	aatgggttgt	aaccantcc	ttaaaaggca	aaggatgtta	780
gganttttaca	gggaaaaaag	cttccggggt	tttancaatt	caccaatcan	caaaccacat	840
attgaagttt	ggttaaaaaa	aaaaaanann	anaaaaaagt	nccctcggcc	gngaacanc	900
cctaagggggg	naaattccag	canactgggn	gggcccgtta	caaaggggtt	cgaaccncgg	960
taccaaacct	tgggggttaa	ncaaggggca	aaancggggt	ncccgnnngg	aaaattgttt	1020
nccg						1024

<210> 31

<211> 1019

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (1019)

<223> n = A,T,C or G

<400> 31

gtgngatgca	tgctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcggccgcc	cgggcaggta	ccatgctgac	ttcttggtat	cttttaaggc	ctaattttcc	120
cttccttgag	attactgtag	tgtgttccag	ctaattttcta	tttgaaacg	agttggaaca	180
gctgaaaact	aggtattatt	gaaggcaaaag	cagcctcacg	tcagtttttt	atcagctcat	240
ttgggaagtt	tttttttttt	ttttttttta	attaattaga	aagtaggctg	ggcacgggtg	300
ctcatgccta	taatcccagc	acttggggag	gccgaggatc	tcctctctgg	tggtacactt	360
gagggcagga	gttaagagac	catcctggcc	aacatgatga	aacctgtgtc	ctactaaaaa	420

tacaaaaagt	agctgggcgt	ggtggcatac	tcttacaatc	ccagctactt	gggaggctga	480
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgag	tgggccaaaga	tcacaccact	540
atactctagc	ctgggcgaca	gaggtgggga	aaaaagtagg	accctgtcc	tatattcagg	600
tttttctcac	atatatgaac	ccatctaaat	tctacgttgt	taaagggtanc	ttaggttaat	660
taagtccata	cttattttaag	accaatatgg	ggtgaaatgg	gatttttttt	taaaaatcct	720
acagntnagg	ctttccnact	ttccttcnaa	atgaggaaaa	aaagggtgaca	aaaattcaag	780
tgtcaatgtc	ccctcctggg	gaaanaggtt	tanaaaaaaca	acaggctcaa	ccttctgaac	840
tnctaacaan	ttcccttnga	aanttaacga	ancattaaa	atcnnngatt	taaaagagga	900
aaanaaaaaa	gttcctcggn	cggnnacaan	cctaaggng	aaattccaca	aaaanngggg	960
ggcctttana	aagnggttcc	nacccggtac	aaaaccttgg	gnntaaccan	gggccaan	1019

<210> 32

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 32

accgccctcg	natccctagt	aacggccgcc	agtgtgctgg	aattcgccet	tgttggtggg	60
tgttggaat	atgtgtgaat	tttctttact	gaatttccaa	agttttgtat	gagtatgtat	120
tatatattgta	atggaaaata	catacataaa	atttattacc	aaaacaccaa	agattattta	180
aggaatttga	gacaaaatat	ttaaccaa	tcccacaatg	acaacactat	tttagttatt	240
ttccacatct	tttcatttaa	gactttatgc	acacatattt	aacactgtta	tcacaagcgt	300
gtgcactgaa	acaagataga	ggaaacagat	caagatgtta	gcagtagttg	ttaggtgttg	360
ggaatatagg	taatttttta	aaataattta	ctttattttc	taatttttcc	tctgggtatg	420
tattatgcac	accaatggag	acacacataa	tacactgtta	tcaggacatt	attatagggg	480
acatttgaaa	aaatttaaagt	gaaagtattt	aaccataatt	ccacaaagg	aatgtaacag	540
ctattttgaa	tatacatatt	gacacagtta	tatacataaa	cctgtgcaca	gaaacaagaa	600
tgaacaagat	aagaggagag	tatatgtctt	tggatgggtg	ggatatgatt	tttttcttc	660
cacttttctg	nattttccaa	gtgtgtgata	atgagttcaa	attatgttca	caatgaaaat	720
gtgatcatta	aacttttttag	taacactacc	aaataaaggaa	ccattttcaag	aaaatttaag	780
gaaaaataat	gctcaactat	taagcctacc	acaaaccaaca	cccacaacag	cttttggtgact	840
attaagcnta	tatatatttta	acnggtatta	atggaaactgg	ttaaatgaac	tggtaaaagg	900
aaccgcatnt	taaatggact	ggtgnggtta	taaccggtgg	tataaaaaana	cctttggggc	960
ctgggttttc	ccttaanggt	ctgnaaanat	attttcncgt	ngtccanacc	ncgggatatc	1020
aatt						1024

<210> 33

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 33

gccntcnaga	cncatgctcg	agcggncgnc	agngtgatgg	atatnnngca	gagncgccc	60
ttccanccna	atacgacnca	ctatagggcn	nnnnnnntng	gcnnctttgh	tgccctccn	120
ctcgnataat	anctatatta	acgaaattgt	nctggccttg	agttggctgg	agagaaatat	180
tnngagnnnn	accngtnnnn	ntnngnnatc	ngtaaaantgt	aanagtagnt	catttgaaca	240
agcaatnatt	naantaccca	ctggnggaaa	ngnngctgaa	tcttactctt	ntggatctgc	300
aggantaggg	cttgtnagta	tgtcaaanat	gcnnncagtg	tcaangttta	ngccnattgt	360
agancngta	gcaggaancn	acnntgangg	ancnncagaa	nggagncctn	anacatncc	420
agatntacga	ggngagagga	gacanacnga	gaaagacacc	ntaggnncga	nctgnagaag	480
gncaggattc	tgagaatgaa	ntgcncggnn	agtcnganc	agattggaaa	aggagnttct	540
ganggnatgg	tgcacnngag	ggctgacnng	tangagnnac	tgntgttgga	acgnacatag	600

cgaaagntgn	tgngcagtga	ggattactac	atgngngaag	gactcttgaa	acgaggaact	660
aactgtgatg	ncanggctga	agtttgggcn	nccatacttt	gnagggttaca	attnttngca	720
gtggncgncc	cgtttaana	gccnttttga	tggaantca	agggtgnncg	gtacnacctt	780
ccntttagg	nacaaggcnt	tnccgantgg	gtngccagga	agaanganng	ccnnancctt	840
annngnggg	ccccttaatn	gcacnggggtg	aacaatgcna	accctcgggt	tattggaacn	900
accngggana	anatggttac	cgaaccatta	ngtgggggna	aaccgggacc	ccggaaggct	960
tttttnncc	cngggtaaaa	acttaacaga	ccnatttttt	gcccgccttt	taacangtct	1020
tttt						1024

<210> 34

<211> 982

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(982)

<223> n = A,T,C or G

<400> 34

acaacaatct	aagcaaactct	caaatacaac	atacttgtaa	ttagaacaca	atgcaatgac	60
ttgatttttag	caagaactag	acacttaatt	tggtaaaaga	aaccaaacia	tgcattatat	120
tgaataactaa	gctaagttac	cataattag	cttacaatt	ctcaaatttc	acaactactt	180
ttgaacatct	aaattttaaac	ctaaattttt	taattaaatg	cctgttcaac	aaagctaatt	240
ggaacaaaca	catttatgta	aatttacatt	ctagaatacc	agggtaaaca	aggagacgtt	300
attcaaagat	gaatgagaaa	gttctattct	ttttcatcat	ttgtgtgatc	agggtgcaaa	360
ggacatgctc	tttctcgcg	gaaactgatg	tcgaattag	ggcagagggtg	gaagaaccaa	420
gcacctttct	gggggctcga	gcagccacca	cttttctgta	agtgcctggg	aacactgtct	480
gcttttagtcc	gcaccatgtt	caaacaagaa	gagaggagag	gagagaacga	actgacttcc	540
cagccgaagg	tgtttctactg	ggacaaggcc	ccgcgttacc	tgcccggggc	gggcccgtcg	600
aaanggcgaa	ttccaagcaa	cactggggcg	gccgtttacn	nagtgggatt	cgnggctcgg	660
gtanccaaggc	ttgggggttaa	tcaaggggca	atagccgggt	ttcccngggg	tgaaaaatgg	720
tnntccngnc	acaantccca	nacaancatt	ccgaagccgg	gaancntnaa	agtgttaaaa	780
ncctgggggt	ngcccaaatg	angtgngct	naactcccat	ttaaattngc	gnttgccccc	840
nannggccng	cctttccaat	tnccgggaaa	cctgttnctg	gccaaagtcg	cantaagaa	900
atcncggcna	antccccggg	gnaaaggggc	ggnttgccgt	nttggggggc	gncttccggg	960
tttcccgggc	caaaggggann	ng				982

<210> 35

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 35

cttggcccg	cctcggatcc	ctagtaacgg	ccgccagtgt	gctggaattc	gcccttccat	60
cctaatacga	ctcactatag	ggctcgagcg	gccgcccggg	cagggtataaa	atttaaaaaa	120
tttaaaaaaa	aagatttgca	aaatgtaagt	gtagatcatt	tgaacaagca	aaattaaagt	180
acccactggg	ggaaatgtgt	ctgaatctta	ctcttctgga	tctgcaggat	tagggcttgg	240
aagtatgtca	aagatgcagg	gagtgtcaaa	gttttaggaag	attgtagagc	tgagagcaag	300
aagcagaagt	gagtgaagta	aagaaggagg	tcctaataca	tcaccagatc	taggaggggg	360
gaggagacag	acagaagaaa	acaccagagg	caagaactgt	agaaggccag	gtttctgaga	420
atgaattgag	cggggtgtcc	tgagcagttt	ggaaaaggag	tttttgatgg	tatgggtgag	480
gtgaggggctg	gctgcatagg	aaggactgag	gttggagcgg	acatcgggaa	agctgagggg	540
cagtgagggt	tactacatgg	gaaaaggact	cttgaaacga	gaatcagtg	tgatgtcagg	600
gtgaactttg	tgggtacatt	acttggtgtt	aacattgggt	gcagtggtaa	gccccttttc	660
agaaagcaac	ttgcttgtaa	gtcanggtgt	ccggtccaac	ctttaactag	tgaaaaggta	720
gtaaccaatg	gtaaacagg	agaatgattg	gttnaaccct	atctgnggac	acttaaatgc	780

cactgggttta	aaaatggnaa	tcacgagttt	tgtancaacc	gggnaatat	atttaccgga	840
acctttantg	ggnaaaagcc	ggncnccnaa	ggntttttat	tncttcnggt	tttaaccctta	900
acaggtncaa	tttataatgc	cgggccattt	aacagggtcat	ttttaaccgg	gtcnnttttt	960
accnnggtta	aaaaanntnt	atgccttttag	gncaaaanct	ttttnngggg	gnttnttgtt	1020
nang						1024

<210> 36

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 36

taccgcctcg	natccctagt	aacggccgcc	agtgtgctgg	aattcgccct	tccatcctaa	60
tacgactcac	tatagggtc	gagcgccgc	ccggggcagg	tagcaaagt	tgtggcattc	120
ctcctcctcc	tcaagtcttt	acccgaaact	acttcccaag	agaggttgct	cttcccaaag	180
aatcacctgc	cctgggacca	tatggggcta	ggctgagggt	caggagccaa	gagcctggtc	240
ccaactctgt	ctgtggctta	ctgtgagacc	ctaggcaagt	tgcttaccct	ctctggggct	300
caaattcttc	ctctttgaaa	taggaataat	aacttcatca	ctagaattct	tcacctgggt	360
gttgtgaagt	taatcagaat	aaatgtggag	ataatacatg	aatgagcgta	cagaatatta	420
tttggctgtt	ctgtggcatc	gatatagggt	atgatagtga	caatagtgtc	tgtcattgta	480
ttccacacca	cttcttcctt	cagctaaagc	aggaaaagaa	aggaggtaag	tctctctgtg	540
ttttttcttc	ctttccccaa	gccactttg	ttaccttcc	tggttgctgg	atgagaaatt	600
agtcagaggg	tcagagagga	cctcaacttc	atatgcttta	aatagagcat	atgcaatttt	660
aaaccatcct	cttaaccaat	ttttcttttc	ttttcagttt	ttccccagtt	atacttccac	720
atgatacacc	agagaaggaa	gatcctttct	catactgaag	aacacaagaa	atttgaatag	780
ttcctgcttt	ctgnaccttc	caccaaaaca	aacttttcaa	tgatccaaaa	aactggcttt	840
gnactgggga	gtcacggaat	gggcccggct	ccangganca	tggcggnngg	gcctttgcgg	900
ngtcgggcct	gtgggtggcg	cggaaaggna	accgggggca	tggnttnccg	agcctggctt	960
tgccccccng	ggncatggtg	tggaggcaaa	gaancctgaa	gtccccacng	gccccgggga	1020
agna						1024

<210> 37

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 37

cttggcacccg	cnctcggtac	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttcca	60
tcctaatacg	actcactata	gggtctgagc	ggccgcccgg	gcagggtgaat	tcagcggccg	120
cttttttttt	tttttttttt	tttttttttt	acagggcggc	tttttgtttt	atttctgctt	180
ttttcccttt	ttcttaaaaa	aattaaataa	agttctcatt	atttcccca	tatacatcaa	240
atgagttttc	atgcaaagca	gcagtcacag	aggcagaact	gtccccagct	cgtgcctntc	300
ggcttgaaga	accaccttnt	cccggccccg	ggttctctgg	ngttctcact	gaggatggac	360
gacgcccact	gtctntccca	gctggaactg	gctatgacga	aacttggttg	gcgtagggag	420
aggagtccct	ccctntcccc	aggatggggg	ctcagggggac	agcaagctct	ggggcctgat	480
ccccatcact	tgnccttcca	tctgagactc	ccagtgtgac	agcttggaca	gggtccctctt	540
cccaggaatg	cgaggctcct	cctctcagct	ctcaatggac	atggcattaa	tgagctgctc	600
cacctataaa	gccagccgnt	gccgcccgtg	ctgctcatcc	tgctctaggg	ccccgatgag	660
ctcctcacta	tacttgctga	cataggagta	gatctcattg	ggggcactca	acatggtgaa	720
actccacggg	gtgcaggcgg	gactgctcgg	cgagggtagg	cattcatggc	ctgggtcactg	780
gatggctggg	aaccttggcc	aaggctgcgg	nagnatcttt	ttcccccagc	tnttggnaac	840
ttggggaagg	cccttgggca	taaaaagcaa	cttggttgga	anggggaggn	ctttgccccaa	900

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ccccgggggct ttggacgttg gaacaagagt nccttgaagg gtttgggncc cccncaaaaa 960
ngcangcntc cgaggaaagcc gcccttgagg gtgncaaaac cccnaactgg ggggttnttn 1020
aanc 1024

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<210> 38
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 38
taccgccctc gcatccctag taacggccgc cagtgtgctg gaattcgccc ttccatccta 60
atacgactca ctatagggct cggcggccgc ccgggcaggt gccgcttttt tttttttttt 120
tttttttttt tttttgcttc acaactgttt attttaagct gaaacttcaa tattcattga 180
ttacctataa taatagttac tcataaatgt agttaataat taaatataaa aattattatt 240
tttacattta tataaatctc tgaaaaatac caagttttga gagatagagc aagaaattgc 300
ttanaaaatt gcaggaagcc tgaanaatct cagcatcagt caaagcaggt ncaacaaaaa 360
acaattttag acattcattt tttgctttta gagtgcttaa aataaatgat cacagaatga 420
ataactgatg tatggcaaaa atgagtttaa aactatgtaa gctccaaggc cccaatgtgt 480
ataagaattc tttggaagga ttttgaagga ctgtaaatgt tgcaataaaa agtaaaaact 540
agtagttagg caatgngttt taaactatag ngtcacctac tgnctctctg gtgcctaact 600
gnattcttca acatcttctt ttcccttttg attagaaatc ctggctctacc tcaaaggttt 660
tgcattgntt tctagggaca tcagcaaact ggtagaccat atgagaaaca gaaataaaca 720
gtaatattat ctttagaaat taagcattat gtacncagtg agaaatggat tgacttgata 780
gaccttaaac ccctttcttc ctttcacacc cttntagna ccacctaang gtatccggat 840
tggggatggg gcccncntnt ggtaatcccc cttnagtcag gacaggggcc cctaagggcc 900
caattttntt tcgaattaga gaaatncccc attttttggg ggggttgcaa gtnttanccc 960
anggcttgca aaggcttntt tttgaagana cncccaaacc cggggncctn tttttcngga 1020
atca 1024

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<210> 39
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 39
tcgcccagc agnangcn cn agcggncnnc agtgtgatgg ttatngtggn gnnttcgcnc 60
tnccatncta atnctactca ctataggggn cntgngncnc nnggcagtn ntnacnnntn 120
annngtgtaa ctgatatcat ntcncnnana ccatgggttac atnnanntag gtctcnnang 180
nataccangc tntgagagnt ngaccnggaa ntcgnttnga aannttgngc gangcngat 240
caatatccnc atcngncaca gcgntccgc aagctgacaa tntcgnanat tnattnttgg 300
tttannganc nnttacangn atggnncccn gagatgcag nnggagtagt gcaaagatgn 360
ntgtaaaact atgtaagctc naaggcccca atgtgnataa cagttcnttg nanggantnt 420
ganggantgt aagngntnaa nntnaangnn anannnaaga ggtangncat gagccnnaaa 480
ctgtagnmnt anctacagng cttanggcgc ctacctggga caggcnacgn cttcattaac 540
cttttgatta gaannacggg ggtaacncac nggttnngca tgggccagta gngcattgn 600
ccngcngggc aaccatagc tngncnaaaa taaacgggtg ttttanctca nnagattaaa 660
gctttttggc cacaggggna aaagnatggc ttganaggcc ttaaaccctt gtactcngtn 720
cacccttttn gagaaccncc taacgggatc tggaaatgng atggccccc tttgggaaac 780
nccctanaag anacctcngg ngacccttg nggcccattt tgangtttag nacngcaatt 840
tncccathtt tngngttttt gccaaccta agncatnggc tggcaatgga ntgnnttttc 900
caatagaanc aaaccccggn tnttttttgg ggggnatcag ggttaagggn nttggcaaaa 960
nnaaannggc ncnnngnaaa aatttttccc nggtntatcn aaanncccca aagcttttng 1020

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caan

1024

<210> 40
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 40
 nggacgcacg ctcgagcggc cggcagngng atggatntng tgcagaantc gccctttcat 60
 gcctatgac cngcacttg gngaggccga ggatctctc tctgggggat cacttgaggg 120
 caggagttaa gagaccatoc tggccaccat gatgaaacce tgtcnctact nnacatacag 180
 gaagnagctg gncgngntgg catactctta caatcccagc tacttggnag gntgangcag 240
 ganaatcact ngnacctang aagcagaggn tgcantngnn ccaanancac accactatac 300
 tntagcctgn acgacagagg tgntgataan agcnggaccc ctgactatat ncaggntttt 360
 ctgacntnna nnanencatc taaatnctac gccgtntgag gtgcgntagg ttangtagnn 420
 natnctnatt tatgaccaat atgntgtntn acggcntnnt gntnaaaant tntacagnan 480
 ggcngnctac nttntttata atgnggaaaa cgggtgntga natncangtg nmnngtccn 540
 nttnttggna agaggnntng aaanncanca gtgcaccttn tgaactctac nagnagcttn 600
 tgaagctaac naagcnttaa natnagatgg cntgntagga ctgtacnngc anggaaagat 660
 tcacaaaact ggacattctt naccgagata ngntcttgc ttaacgggga ggaennntcc 720
 aaggntgtnt naagagggac agtcagctta gtnntgctng ggtagagaaa accangactt 780
 natntgtgag cttgatnggc agaacctggg nanccttggg agagcntnga ttgnccngat 840
 ccctgaaagg gcnnncttna ccctatcggg gaccttnnna acctcttang tggcacgcaa 900
 ggcacnaacc nggcncttt caagaatcnc nggaatcnag gccctttct tgggntnanc 960
 cngnnnncc cgttnagncc cncgggnaaa anncttggg nntttccaat cccngngggn 1020
 nttt 1024

<210> 41
 <211> 1004
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1004)
 <223> n = A,T,C or G

<400> 41
 ggtnnnnntta atcatcgccn gcttgggtacc gagctcggat ccctagtaac ggccgcccagt 60
 gtgctggaat tcgcccttag cggccgcccg ggcagggtact tcccaccact ggaaatgtta 120
 gcataaaaga acttgagag gaaaaaagta ttaacaaaac tgcagtctgc actctttaaa 180
 cctgtttaag gctcttcac cgggttagca aaaggtgtga atgtaatgtg atggaattta 240
 aaagttttat gagaccaggc acagtggctc acgactgtaa ttccagcagt ttaggaagcc 300
 gaagtgtgca gatcacctga ggtccggaga ccagcctggc caacatggtg aaaccctgtc 360
 tctactagaa atacaaaaat tagccagggtg tgggtggcggg cgctgtaat cccaactact 420
 caggaggctg aggctagaga atcacttgaa ccagcaggc ggaggttgcg gtgagtcgag 480
 atcacgccat tgcactccag cctgtgcgac aagagcgaaa ctctgtctca aaaagatttt 540
 ataagaaagc agagcttttc cttgaagctc ttttgaagtg gtagcttaat tagtattttg 600
 ntgaaaatac tttaaagatg cctagtgaag agcctactaa agtgcgtgtg aaaaatgggt 660
 ttanaacatt ttattttcan gctttatggc ctattttcca ttngggcaag tgcaaaacta 720
 ccctggccca aangaagggc agagaacata attacctctt anggcacatt tcattctttg 780
 cagctttgct taatccagtn gctaagttct ttacctnaac cctgnaggna ttgaacntta 840
 ttncatttn ngnaaaaggg tcacctntt nnnacaatnt tncannact ttttnggaag 900
 ttanccnttg gccttaaaan ttnaaaantc cntntggnt tccctttatn ccccnangg 960
 gnnnantang gnntggattt ttaanggncc ttggccngaa cccc 1004

<210> 42

<211> 1020
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 42

nnnnnnnnnn	nnnnngattg	ggccctctag	atgcattgtc	gagcgccgc	cagtgtgatg	60
gatatctgca	gaattcgccc	ttagcgtggt	cgcgcccgag	gtaccttga	taattcctag	120
acctctattt	tcattctgtg	tattaatgtg	aataacagat	ggatatttta	atatttaagg	180
cagatggtaa	actttcctat	aggtcttgtg	agacttcgtc	ttataggctg	aacaccattc	240
acaaaaatgta	ataatgcttc	attccttcag	ggtgaggtaa	agaacttgag	caactggatt	300
agcaaagctg	caaagaatga	aatgtggcct	aagatgtaat	tatgttctct	gcccttcctt	360
tggggccagg	tagttttgca	cttgacacaa	tggaaaatag	gccataaagc	ctgaaaataa	420
aatgtttctaa	accccaatct	cacagcactt	tagtaggctt	ttcactaggc	atctttaaag	480
tattttcaac	aaaataactaa	ttaagctacc	acttcaaaaag	agcttcaagg	aaaagctctg	540
ctttcttata	aaatcttttt	gagacagagt	ttcgctcttg	tcgcacaggc	tggagtgcaa	600
tggcgtgac	tcgactcacc	gcaacctccg	cctgctgggt	tcaagtgatt	ctctagcctc	660
agccttctgg	agtaagttn	gaatacaggc	gccccgncaa	cacacctggc	ttaaatttgn	720
atttctagta	naanaccagg	ttttnancat	ggttgncaag	gctggtcttc	cggaaacctn	780
angtgatctg	gacacctttg	gntttcctaa	actgggtgga	aattancagc	gggaaccnct	840
ggggcctggc	tcattaaacc	tttaaaatnc	cttnccattc	anttcncacc	ttttggtaac	900
cccgnatgaa	aacccttnaa	ccgggtttta	agnangcnna	nnnggggnnat	ttgtaaaact	960
ttttcccnt	tccaagtct	ttaagccaan	nntttncng	gnnnngggan	ccctnccggc	1020

<210> 43
<211> 1020
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 43

ggagnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtactt	tttactgctt	tgtcttcaag	120
gcctagtgtg	ataattaaca	tctagtatgt	gtttgatgga	tagccaattt	ttgcttcatt	180
ggtatgttgt	taccacagtc	attggtagag	tcaatatatg	aatgaagaaa	gtataacaaa	240
tttgccctct	agtagagtag	tttttttttt	tttttttttt	ttttgttttt	tttttttttt	300
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	360
tttttttttt	ngnnnttttn	ncnttttttn	aannaaaaan	cggcccnann	accnncnnc	420
nnnttttttt	nnnggcenn	ccngnttng	gggnngggn	cnttnngggc	cnnnnggncn	480
cttttttccn	naagggtttt	ggggttttng	gggnaaantt	tnngnncnan	nnnggccena	540
aaaaanttnn	gnccnanaan	cgcntttcc	nannnttnn	cnttggggcc	caaaaanttn	600
cgnaaccccn	tgggennaaa	gggcnttgnt	ttttttgggg	nnccnnaaac	canggggggg	660
cnnaaaaaat	gncccttgaa	ntttttaaaa	aaccctntgg	naaaancccc	nnnggttccc	720
ccnnnnnccc	ttanttttnn	acanaanggn	nnaaangggg	nccnnnaaaa	nccnttngg	780
ggcctttttt	tnacaaattt	gggnttttnn	aaaggggttt	tnnggggggc	cctntatncc	840
ccnaaaaang	aaagggnnnc	ccccccnnn	nnnnnnnncc	cnaancccc	ggnnnttttn	900
ccnggggggg	cccnnaaaaa	gggggnaant	ttnggnaaan	nccnnnnncn	gggggggnccn	960
ttnaaanntc	nntttnanng	gggcccnnnn	nncccnnnnn	annngggggg	nnaaaaaccn	1020

<210> 44
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 44

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nnngnnnnnn nngattgggc cctctagatg catgctcgag cggccgcccag tgtgatggat      60
atctgcagaa ttcgcccttt cgagcggccg cccggggcagg tacgcggggc tcggcgctgc      120
ctacggaggt ggcagccatc tccttctcgg catcatggcc gccctcagac cccttgtgaa      180
gccaagatc gtcaaaaaga gaaccaagaa gttcatccgg caccagtcag accgatatgt      240
caaaattaag cgtaactggc ggaaacccag aggcattgac aacaggggtc gtagaagatt      300
caagggccag atcttgatgc ccaacattgg ttatggaagc aacaaaaaaa acaaaagcaca      360
tgctgcccgag tggcttccgg aagttcctgg tccacaacgt caaggagctg gaagtgtgc      420
tgatgtgcaa caaatcttac tgtgccgaga tcgctcacia tgtttcctcc aagaaccgca      480
aagccatcgt ggaaagagct gcccaactgg ccatcagagt caccaacccc aatgccaggc      540
tgcgagtgag agaaaatgag taggcagctc atgtgcacgt tttctgttta aataaatgta      600
aaaactgcaa aaaaaaaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aannccnnnn aaaaannnnn nnnnaaaaag      720
gcttntttta angggcaaatt tgggaaaact ttttnattca aaaatggctt ttncangga      780
ctggggacca nnttnccng ggnccaaaa ttgggntttc ctttaanccc ntnncnaaan      840
gggaattttt ncccttgggc cttgaaaaac naagcnnnna aaaagncctt tgggnnggaa      900
acccttttng ggggaatttc cncncnttg ggggggcnt nttnnnnggg acccnanttg      960
gncccaantt ttggggaaaa nnnnggnnaa aaaggggnnc cctgggggaa aatgttnccc     1020
ccca                                           1024

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<210> 45
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 45

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ggagnnnntn aatcatagc cagcttggtg ccgagctcgg atccctagta acggccgcca      60
gtgtgctgga attcgccctt tcgagcggcc gccggggcag gtacggcgca ttttgtgcac      120
acaaaatgtg cgacacacac cacacacaca cacacagaca ctctgcaca tggcctgtta      180
aagaactaca agggaggtgg gacgcgggaa agtgtatggt gtgggtttgc atcgtctcat      240
cattgattct tctcatattt ttctctgatt agagaaaacta aagagaattt tgtgagaaag      300
gcttgaaagt taattagtta cttctaccaa agtgattaca agcagaaatc ctcatatgct      360
gtagagatgc tgacccacac atccttagct caaggaagcc cctcgcatta gtcaccttca      420
gccatcagca gcctccacca ttaaccccag tgtgctgtat aaaaaatact ttctacatgt      480
gccc aaattt gaaaagttag gaagcactga tttcaaagca aatcattcac atttgaactg      540
tcttcagtgt acctcggccg cgaccagct aagggcgaat tctgcagata tccatcacac      600
tggcggccgc tcgagcatgc atctagaggg cccaattcgc cctatagtga gtcgtattac      660
aattcacttg ccgtcgggtt tacaacgtcg tgactgggaa aaccctgcg ttaccaact      720
taatcgnct ggagcacatt cccntttgg ccnactggcg taattaacca aaaagmccg      780
gaccgaatcg gccntttcca acaagttggg ccaacctgaa tnggcnaaan ggccccccc      840
tgtaaccggn gccattaaac ccccgncggg nnnntngggg taccaccaac ggggaccggt      900
taacttgcc anggccttaa ggcccggtcc ttttggtttn ttncctttn tttttngccc      960
ntttncngg nttttcccn aaagntntaa aaaggggggg tccccntta ggggtcccaa     1020
taaa                                           1024

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<210> 46
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 46

nnngnnnnnn	nnnnnnngaa	ttgggcccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	60
atggatatct	gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtagact	gaagacagtt	120
caaatgtgaa	tgatttgctt	tgaaatcagt	gcttcctaac	ttttcaaatt	tgggcacatg	180
tagaaaagtat	tttttatata	gcacactggg	gttaatgggtg	gaggctgctg	atggctgaag	240
gtgactaatg	cgaggggctt	ccttgagcta	aggatgtgtg	ggtcagcatc	tctacagcat	300
ctgaggattt	ctgcttgtaa	tcactttggg	agaagtaact	cattaacttt	caagcctttc	360
tcacaaaatt	ctcttttagt	tctctaata	gagaaaaata	tgagaagaat	caatgatgag	420
acgatgcaaa	cccacacccat	acactttccc	gcgtcccacc	tcccttgtag	ttctttaaca	480
ggccatgtgc	aggagtgtct	gtgtgtgtgt	gtgtgtgtgt	gtgcgccacat	tttgtgtgca	540
caaaatgccc	cgtacctgcc	cgggcggccg	ctcgaaaggg	cgaattccag	cacactggcg	600
gncgttacta	agtggatccc	gagctcggtg	ccaagcttgg	cgtaatcatg	gncatagctg	660
nttctgtgtg	gaaattggta	tccgctcaca	attccacaca	acatacgagc	cgggaagccn	720
taagtgtaaa	agccctgggg	tgcctnatga	gtgagctaac	tccattaaat	tgcgttgccg	780
ctcactggcc	ggtttccagtc	cggnaaanct	gcggncnact	gcantaatga	atcggncaac	840
gcccccgga	aaaaagcggg	tgcgaattgg	gcctnttttc	cctttcttgg	ttaatggact	900
ccntnngnct	tnggccnttc	ggnttngggn	naacgggatt	aanttnnntt	naaagggggg	960
naanacgggt	ttccccnana	aatcnggggn	aaacccccng	gaaanaaacn	ttggncccaa	1020
nggc						1024

<210> 47

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 47

ggngnnnnnn	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgagggtgcat	ctgaacattg	ccaagcccta	120
ggacattccg	tagagcttgg	ggattctgga	ccaattgggt	cagacaggac	acgaaatgcc	180
tgtttgatgg	gttctgcaat	taaacaccca	actactctct	tttcatcaga	tataaaaaga	240
aaagttttta	ttttgtttgg	acatttagga	acaacttgct	ggaagcccaa	ttcattatca	300
acaagttctt	ggacatcttc	tacctttttg	atagcaaagc	ttggatcatg	tggcagaacc	360
aacacgattt	tcccatccca	aaactctgct	actacacggt	ctttcttcca	acccacatat	420
ttgattcctt	ccagaaacct	gtggtgatgc	tgtacctgcc	cgggcggcaa	gggcgaattc	480
tgcagatata	catcacactg	gcggccgctc	gagcatgcat	ctagagggcc	caattcgccc	540
tatagtgagt	cgtattacaa	ttcactggcc	gtcgtttttac	aacgtcgtga	ctggggaaaac	600
cctggccggt	acccaactta	atcgcccttg	agcacatccc	cctttcgcca	gctggcgtaa	660
taagcgaaga	ggcccgnacc	gatcgccctt	tccaacagtt	gccgcagcct	gaatggcgaa	720
tggacgcccc	ctgtanccgg	cgcattaaac	cgccggcggg	tnnttggggg	accccnacag	780
gggaccggta	cactttgnca	agggccctaa	cggcccggtc	cntttcgctt	tcttnccttt	840
cntttnttgg	ccacgttngn	ccgggttttc	cccgtnaagc	ttttaaaatn	gggggcttcc	900
cnttttaggg	gttcenaatt	aanggcttta	cgggaccctt	gaccccnaaa	aaactttnnn	960
tttnnggggg	gnggggntnc	ccntaggggg	ccattgnccc	ttgnnaaaaa	anggtttttt	1020
nncc						1024

<210> 48

<211> 1017

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1017)

<223> n = A,T,C or G

<400> 48

gnnnnnnnga	ntgggcectc	tagatgcatg	ctcgagcgge	cgccagtgtg	atggatatct	60
gcagaattcg	cccttgccgc	ccgggcaggt	acagcatcac	cacaggtttc	tggaaggaat	120
caaatatgtg	ggttggaaga	aagaacgtgt	agtagcagag	ttttgggatg	ggaaaatcgt	180
gttggttctg	ccacatgac	caagctttgc	tatcaaaaag	gtagaagatg	tccaagaact	240
tgttgataat	gaattgggct	tccagcaagt	tgttcctaaa	tgtccaaaca	aaataaaaac	300
ttttcttttt	atatctgatg	aaaagagagt	agttgggtgt	ttaattgcag	aacccatcaa	360
acaggcattt	cgtgtcctgt	ctgaaccaat	tgggtccagaa	tcaccaagct	ctacggaatg	420
tcctagggct	tggaatggt	cagatgcacc	tcggccgcga	ccacgctaag	ggcgaattcc	480
agcacactgg	cggccgttac	tagtggatcc	gagctcggta	ccaagcttgg	cgtaatcatg	540
gtcatagctg	tttctgtgt	gaaattgtta	tcgctcaca	attccacaca	acatacgagc	600
ccggaagcat	aaagtgtaaa	gccctggggt	gctaattgag	tgagctaact	cacattaant	660
gcgttgcgct	cactggccgc	tttccagtcn	ggaaacctgt	cgtgccagct	gcattaatga	720
atcggncaac	gcgcggggga	aaaagcggtt	gcgtaattgg	gcgctctttc	cgctttcttg	780
nttacttgac	tccttgggct	tcggccgttc	ggntgcggnn	aacggnattc	aacttactca	840
aaaggcggnn	atacgggtatt	cccngnaatc	nggggataac	ccccggaaan	aactttgacc	900
naaaggcccc	caaaaggccc	ngaacccgna	aaaaagggcn	cgnnnnnnnn	ggggtttcct	960
aaggttcggg	ccccctggnn	aggtttccca	aaaatngnnn	cctttannnn	nnnnngg	1017

<210> 49

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 49

ggngnnnnnn	anatnaaacg	ccagcttggt	accgagctcg	gatccctagt	aacggccgccc	60
agtgtgctgg	aattcgccct	tgagctggcc	gcccgggcag	gtactgaaat	tactctgaat	120
tcagaaatgt	aagtatatgc	agctaggtca	taaagacact	gctttagaga	agacatgtat	180
tagtggaaatg	gaacaggtaa	catctttgag	aagtcaatga	gttctgcatg	cagggatttc	240
accatcgga	tgatggcaag	aatgatgcct	gcctgtgtgc	ttctcagagg	acgtataaag	300
ccactgagga	tgagtgtac	agtgtgtgtg	aattgtgggg	ccacagacat	ttaagtggc	360
attgcttttc	tcctcctctg	cttaatccac	ctttataaat	atggcagatg	gcttaagaca	420
ggcatcatca	gcatctctgg	agatgtgggc	tcagagggca	agtggggggc	gtggggggtt	480
ccactagagg	gagggaaagt	tctgtttccc	atgtgttagt	tgtagttgtc	tttgtgcttc	540
accagaaaag	aggtagagt	cgcaccttca	cactaagagc	ccgaaattgt	gggtcagtac	600
tttttttttt	ttnnnttttt	tggtnntttt	tnnnnnnnnn	nnnnntnnnn	ngnnnnnnnt	660
tnnnntnnnn	ngnnnnnnnn	nnnnnnnnnn	tttnntnngg	nnnnnccttn	nnnnnaann	720
nnnnnnnnnn	ncnnnnnnnn	tnnnnnnnnn	nnnnncnttn	ngggnnnnang	ccccnannnn	780
nccnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnccnannnn	nnnnnnntnn	840
nnnaanncnn	tnnnnnnnnn	nnnggnnnnnn	nnntttnnan	nnnnnnnnnn	nnngnnnaann	900
nnnnnnnnnn	nnnnnnnnna	annnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	960
nnnnnnnnnn	nnnanngggn	nnnncccnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnttt	1020
nngg						1024

<210> 50

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 50

ggagnnnnnn	nnntncngant	gggccctcta	gatgcatgct	cgagcggccg	ccagtgtgat	60
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ggatatctgc agaattcgcc cttagcgtgg tcgcggccga ggtacactga cttgagacca 120
ggtgaataaa agtgcacacc ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaanaana ntaaaaaaaaa tttnaaggta aagntnncnn ntnaaaatct tttaggggna 300
tccttatann nnttttcggn tntttnnngg ntngncctct nntnccnnnt tttttnggna 360
ancccnnaann cccngnctta ccnatgngn cananttaaa anggtncntt nttngnggga 420
nctcannnec cccgccnttt tnttnngggg ggnttnccca nngngnggna aatgcncngc 480
tnatnaanan gggnttnntc cnaaatnngn naancctga gngngnaanc ntntggngct 540
tntnncngat tngnnnacc cncnngcag anntcnttgn nnccttantn ccgggggnta 600
nacccttcct ttaaaancnc nntgntntna aaaannnttt ncctgancna tcgggntaaa 660
ncnnnttttt tgaaaaccnn ggcttttttnn aanangctcc gntnggcnaa ctttggggaa 720
naaggntttt ttttaaggct tgcttttttag ggccanccta angnggannn ncngttgntc 780
tgnnngatgg tttttagggg ttcccggtg ggaccntnt tggggggaaa ttttggmccn 840
aggggntccc ctnaagaaa tccnnnttcc nggncncnaa ttncnnaaa aattnggggn 900
ccnaaanntt tnattgggaa ggcnccttgg ttgccccnt aaanggnccn naaaccttta 960
aanggggggn gcntttaatg gcncctttcn ggncccnaaa aaanggggnc ccccnnttt 1020
nagg 1024

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<210> 51
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

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<400> 51
gngnnnnntt aactcccgt tggtagcgag ctcgatccc tagtaacggc cgccagtgtg 60
ctggaattcg cccttagcgt ggtcgcggcc gaggtacttt ttttttcttt tctttctttt 120
tttttttttt ttttaattttt gagatggagt tttgctcttg ttgccacgc tggagtgcaa 180
tggcgcaatc ttggctcatt gcaacctcca cctcccgat tcaagcgatc cttctgcctt 240
agcttcccaa gtagctggga ttatagacgt gtgccaccat tcccagctga tttttgtatt 300
tttagtagag atgggggttc accacgttgg ccaggctagt ctggaactcc cgacctcatg 360
tgatcctccc accgcagcct cccaaagtgc tgggattaca ggcgtgagcc accatacccg 420
gttgattgta gacttttgat tggattttac aaggacccat gagaggcaac aaagagaagt 480
tgtcaagaga acagaccctg agaccaatag tttggctcaa gctctggctc cctaacttcc 540
taccagtttg accttgggca agttacctaa catctttgtg cctccatttt ctatttgtaa 600
aaggaaacta atagtagtgc ctactttata atagagttat taaaaatatt aaatgagtta 660
atatttgtaa agtaattaga aaaatgcctg gcacttcaaa agcagccttc atttattctt 720
tggaataaat tttaaatgaa ttcaagggtt atatgtagct tttaggcata tatnccataa 780
tggcactgta aaactgcana aatatccgat ctttaaaaaa ttttgggtaa atttatcata 840
atatggnaac caaatcccat ttaatggctt ttaggggtan ccgatnaaaa ccngaagttt 900
gcagtttaag cnccttatgg aangggaccc gaaattccaa ggancannn gggaaaaaac 960
ccnngagga atnttggcgg ntttaantta aancctttgg gtnntttaag nncctaaaaa 1020
nttt 1024

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<210> 52
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

```

<400> 52
gngnnnnntt tnnngttcng antgggcct ctagatgcat gctcgagcgg ccgccagtgt 60
gatggatata tgcagaatc gcccttcgag cggccgccc ggcaggtact tcaaaactat 120
tcataagcaa aaatcagtgt caaaaatatt tagtaactta aaaaaaaca aaagtataag 180

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tagagacgga	caagaactcc	tectgcttcc	tcccactggg	ctcatcgat	ttctgttcca	240
ttacataaga	gactaaaact	gacaaactct	gttttatcgc	taacaccta	aagcaataaa	300
tgtgatttgg	taccatatta	tgataaaatt	taacaaaaaa	attttaaaga	tcggatattc	360
tgcagtttac	agtgcatttt	atgtatatat	gcctaaaagc	tacatataaa	ccttgaattc	420
atttaaaatt	atttccaaag	aataaatgaa	ggctgctttt	gaagtgccag	gcatttttct	480
aattacttta	caaataattaa	ctcattttaat	atttgtaata	actctattat	aaagtaggca	540
ctactattag	tttcttttta	caaatagaaa	atggaggcac	aaagatgtta	ggtaacttgc	600
ccaaggtcaa	actggtagga	agttagggag	ccagagcttg	agccaaacta	ttgggtctcag	660
gggtctgttc	tcttgacaac	ttctctttgn	tgctctcat	gggtccttgt	aaataccaat	720
caaaagtcta	caatcaaacc	gggtatgggg	ctcacgcctg	taatcccagc	actttgggga	780
ggctgcggtg	gggaggatcc	ccatganggt	ncggagttcg	agactagcct	gggccaacgt	840
ggnggaaacc	ccatctntac	taaaaattcc	aaaatcanct	ggggaaggng	ggcacacgtc	900
tataatccca	cttctttggg	aagcttaagg	ncnnaaggac	gcttggaaac	ccggaanggn	960
gnggttcaat	ggancccaaa	atgngccatt	ggnctttcnc	gngggccaac	angagccaaa	1020
ntcc						1024

<210> 53

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 53

gggnnnnnnn	tnncttaacg	cccgnttggt	accgagctcg	gatccctagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacattactt	ggtgttaaca	120
ttgttggcag	tggtagcccc	ttttcagaaa	gcaacttgct	gtaagtcagg	gtgtccgttc	180
caaccttcag	ctagtgaaaa	ggtagtaaca	aatgggtaaac	aagagaatga	ttgttttaaac	240
ctatctgtgg	acacttaaat	caactgttta	aaaatgataa	tcacgagtta	tgtagcaacg	300
tggaaatata	tttacagaac	attaagtggg	gaaagcgagg	cacgaaagta	tatttatact	360
acagttataa	ctcaacagtt	catttatatg	ctgttcattt	aacagttcat	ttaaacagtt	420
cattataact	gtttaaaaat	atataatgct	atagtcaaaa	gctgttggtg	tgtgtgtgtt	480
gtaggcttat	agttgagcat	tattttctta	aattttcttg	atgttcttta	tggtagtgtt	540
actaaaaagt	ttatgatcac	attttcattg	tgaacataat	ttgaactcat	tatcacacac	600
ttggaaaata	cagaaaagtg	gaggaaaaaa	aatcatatcc	ccaccatcca	aagacatata	660
ctctcctctt	atcttgntca	ttcttgggtc	tgngcacagg	tttatgatta	taactgngtc	720
aaaatgtata	ttcaaaaatag	ctggtacatt	acctttgngg	nattatgggt	aaatctttca	780
ctttaatttt	ttcaaagggtc	cctatnataa	tgccccggat	aaccgnggga	tttaaggggg	840
ctccccatgn	gggcataatn	cataccnnga	ggaaaaattn	naaaattaag	gnaantattt	900
ttaaaaaatt	ncctatatatt	cccaaaacct	aacaactact	ggtaaaaatn	ttggaccggn	960
tccccctatt	ntnggttaan	ggccccacct	ttgggnaaaa	ccggggtnaa	aaattggggc	1020
ctaa						1024

<210> 54

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 54

ggagnnnnnn	ttnnngtttg	gccctctaga	tgcagtctcg	agcgcccgcc	agtgtgatgg	60
atatctgcag	aattcgccct	ttcgagcggc	cgccccggca	ggtacttttt	tttttttttt	120
tttttttttt	ttacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagtg	180
cacagatcaa	gatgttaaca	gttaattgtt	gttgggtgtt	gggaatatgt	gtgaattttc	240
tttactgaat	ttccaaagtt	ttgtatgagt	atgtattata	tttgtaatgg	aaaatacata	300

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cataaaatttt attaccaaaaa caccaaaagat tattttaagga atttgagaca aaatatttta 360
ccaaattccc acaatgacaa cactattttta gttattttcc acatcttttc atttaagact 420
ttatgcacac atatttaaca ctgttatcac aagcgtgtgc actgaaacaa gatagaggaa 480
acagatcaag atgttagcag tagttgttag gtgttgggaa tataggtaat tttttaaaaat 540
aattttacttt atttttctaatt ttttcctctg ggtatgtatt atgcacacca atggagacac 600
acataatata ctgttatcag gacattatta tagggaacat ttgaaaaaat taaagtgaag 660
gtattttaacc ataattccac aaaggtaatg taacagctat tttgaatata cattttgaca 720
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ccttnccttn aggaacattt caggaaantt tannaaaata anggctcaac ttttaggcct 960
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taan 1024

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<210> 55

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 55

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taaaaccacc tgaggagcct cttgatgggt agtcaggctg ttctcgaag agtaggctgt 180
gactgccaaa cttttaggtt taaggagtat ttataatgat ctttgaggaa actgcaactg 240
acaattgagg gaaaaaaatg ttagttcatg actgcaaaat acatgacaga atcacaaaaa 300
ctattttaca agtttaaaaa acaaacctga tgctgatgca tggcaggcga accccaaagt 360
ggggcttagc ctgcaagggt tcttggttc acccaggaaa ggattcaagg gcaagccagt 420
ggtaagggtg aagaaaacac ctttatcaaa gcaacactgt tacagctcct gtggggtcac 480
agctcagtga ctgctcccag gggtgcccc taggcagggt gccgagagta gcagctgagc 540
ccagttttgc agtcatatgt atacctactt ttaattacat gcagattcag ggggtggttg 600
cgcagaatt gttaggaaaa gggtggtaac ttttgggtca tcaggctatt gccgcttaa 660
gtggtggtaa tgcctgagtt ttgcatggc aatggtaaac tgacaaggca cgctgcttgg 720
tgtgtcttac agaaagctgc ttncgctctg nccttggtta notageccct gancntttgg 780
ttgtaaata accaagagaa gtcaccggcc cttggcgatt tcttcccaga agtacccttg 840
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gnttcancct tgcattttta aagggcccaa tttgnccctt taaanggagt cgantaccaa 960
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<210> 56

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 56

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aacgccaagg ccgtgactct cttgctcatt tacaacaaa agatcgaggg ctgctaaac 180
aaggacagag cggaagcagc tttctgtaag acacaccag cagcgtgcct tgtcagttta 240
ccattgccat ggcaaaactc aggcattacc accactttca gcggcaatga cctgatgacc 300
caaaagttac caccctttt ctaacaattt ctgcgcaaac caccctgaa tctgcatgta 360
attaaaagta ggtatacata tgactgcaaa actgggctca gctgctactc tcggcaccct 420

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gcctatgggg	caaccctggg	agcagtcact	gagctgtgac	cccacaggag	ctgtaacagt	480
gttgctttga	taaagggtgt	ttcttccacc	ttaccactgg	cttgcccttg	aatcctttcc	540
tgggtgaagc	caagaaccct	tgcaggctaa	gccccacttt	ggggttcgcc	tgccatgcat	600
cagcatcagg	tttgnttttt	aaacttgtaa	aatagttttt	gtgattctgt	catgtatttt	660
gcagtcatga	actaacattt	ttttccctca	attgcaagtt	gcagtttcct	tcaaagatca	720
ttataaatac	tccntaaccc	tacaaagttt	ggcaagtcac	agnctactct	ttgaggaaca	780
agcctgactt	accatcaaga	agcttccttn	anggggntta	cnttccatgg	tttcccatgg	840
tgaaggancc	fgncccgggc	ggcggnttaa	gggcgaaatt	caacacactt	ggngggccgn	900
tnnnttaang	gatccnaact	tggganccaa	annnttgggg	naaannatgg	gnnnnnaact	960
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gaan						1024

<210> 57
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

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ttagtatctg	gttcccttaa	ggatgtaact	ttcatgtaac	agattaataa	cttatatgaa	180
aaccaacaca	accatatgtt	tagggctgga	aaggggccatg	acgcctgggc	atttttcctg	240
ttttacctta	ctcttatgtg	tgtcacactt	catcaattcc	ggaaacagtt	tctggagatc	300
tcctcattac	ctcttttaca	atcacctcac	tccagcatgg	tgtctgttac	ctcttccac	360
ttgtgacaat	gtctagtaag	gtccactctc	cattctgtgt	gatgaccact	tattacaacc	420
ctcagaatag	gggacagtgg	tgtgccccct	gcaatacaat	ggttttctatc	tcctgatact	480
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atgaacaatt	atctcccgtt	actcacctag	cagtatctaa	ctgtccctaa	cacagcatgt	600
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gtgacttaca	atgaaccata	atggccacat	ttcccaactg	natttttgaa	cctcttctgn	720
ccccctcttt	ctagganccc	agttaaaaaa	aaaaaaccaa	aactagcccc	aatgnctgtg	780
atgcccatta	atcacttacc	cagggctgan	ccctncatta	aanttttgat	gggatctctt	840
tggnntccca	attggccgtt	naacccaagn	ctgntggatt	cccaanttnc	cccattgntt	900
taatgcgggt	cccttaanca	ncccttggnt	actggacctg	gcngggngg	gcccttttaa	960
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aang						1024

<210> 58
 <211> 1024
 <212> DNA
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<220>
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 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 58						
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aggaaccgca	tgaagcaatg	tgggaaattg	ggaatcagca	gacattgggt	taacgggaca	180
atggggagcc	aagagatacc	atcaaaattt	aatggagggg	tcagacactg	tgtagtgat	240
taatgggcat	caacagacat	tgggctagtt	tttgtttttt	ttttttaact	ggggctctag	300
aaagaagggg	acagaagagg	ttccaaaata	cagttgggaa	atgtggacat	tatggttcat	360
tgtaagtcac	cgccattgcc	tgaggggag	gaagaaagtt	aacagcatcc	accgtattga	420
gggcattccc	acatgctgtg	ttagggacag	ttagatactg	ctaggtgagt	aacgggagat	480
aattgttcat	catcgtgagg	gaaaaatcaa	taaggaggat	cacaagacat	cctgctagag	540

gtgtaataaaa	agtatcagga	gatagaaacc	attgtattgc	aggggggcaca	ccactgtccc	600
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gtaatgaaga	gatcttccag	aaactgtttc	cgggaattgat	gantgtgacc	cnccttaaga	780
ntaaggtaaa	acaggaaaaa	tgnccaggc	gtnatnggcc	cttttcagnc	cttaaccttt	840
attggtgggg	tggtttcata	taagttant	aatctggtn	cctgaaagtt	tccttccttt	900
anggaaaccc	gantccta	cctttnaagt	ccnnggatga	gacccttggg	ccgggaaccc	960
cccttaaggg	cgaaattccn	nccacttgg	gnnggcentt	nncttaaggg	acccaacttg	1020
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<210> 59

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 59

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atttcccatc	ttccatcgta	tattgaaatt	tcctcatcca	tgatcatctt	ctttgctttt	180
gataagaccc	atccagccaa	ccttccacta	tcaaaaagtt	ctgcaaaata	tacttctcct	240
atagggtgag	gtgtcttata	tttaatctct	gaggaaagtt	cactttcatt	aacatcaatt	300
tcttctgaat	tttcttcaaa	gtcttccgtc	tcaacatcat	catccataaa	ttctgcatta	360
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tcgccctata	gtgagtcgta	ttacaattca	ctggccgctg	ttttacaacg	tcgtgactgg	660
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ggggaccggt	acactttgnc	aagggcctaa	cgncgggttc	ntttgggttc	ttncctttcn	900
ttnttngcac	gttngnccgg	nttttcccg	naagctttaa	aatngggggc	ttcccccttt	960
angggctccn	aataaaggtt	ttacggganc	ttgaaccccc	aaaaaacttt	gnnttnaggg	1020
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<210> 60

<211> 1024

<212> DNA

<213> Homo Sapien

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<222> (1)...(1024)

<223> n = A,T,C or G

<400> 60

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tggtctgaag	agacgcgggg	accaagtggc	aacgacttgg	acatctgagc	tgctactgcc	180
gaaaacagcc	cgcaagagag	ataatcaata	tgcatttcca	agccttttgg	ttatgtttgg	240
gtcttctgtt	catctcaatt	aatgcagaat	ttatggatga	tgatgttgag	acggaagact	300
ttgaagaaaa	ttcagaagaa	attgatgtta	atgaaagtga	actttcctca	gagattaaat	360
ataagacacc	tcaacctata	ggagaagtat	attttgcaga	aacttttgat	agtggaaggt	420
tggctggatg	ggtcttatca	aaagcaaaga	aagatgacat	ggatgaggaa	atttcaatat	480
acgatggaag	atgggaaatt	gaagagttga	aagaaaacca	ggtacctcgg	ccgcgaccac	540
gctaagggcg	aattccagca	cactggcggc	cgttactagt	ggatccgagc	tcggtaccaa	600
gcttggcgta	atcatggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	ctcacaattc	660

cacacaacat	acgagcccg	aagcataaag	tgtaaagccc	tgggggtgcct	aatgagtga	720
ctaactcaca	ttaaatacgt	tgcgctcact	ggcgctttc	cagtcnggaa	accctgtcgt	780
gccagctgca	ttaatgaatc	ggccaacgcc	ccgggggaaa	aagcggnttg	cgtattgggc	840
gctcttccct	ttcttgntta	cttgactcgc	ttgggcttcg	tcgttcggct	gcggcnaacg	900
gnatcagctt	actcaaangc	gggaaatacg	gtantcccca	gaatccnggg	gattaccccn	960
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<210> 61
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

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accaattttg	ctgcaagaat	gggaactgct	tttaaactcg	taaatagctc	ttaacatttg	180
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gcaatcacct	attaatgatg	aaatatttta	ccactttggg	aatatttaat	tagtttagtc	360
atggagaata	cttccacat	tttaagattt	ttcaaatac	actgtcattt	ctatttttagc	420
atttttatcaa	attattgctt	ttttatttta	taataaggct	taagacagat	tatagacctc	480
cttaagagat	gagtttcttc	ttctaaaaat	gcatgttgat	agaggactat	ttaggctaata	540
cggaggaatc	attaagaaa	aaagttttaa	cactgtttat	ccctatctgc	tttccctgca	600
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catcagtagc	tcggcccgca	ccacgctaag	ggcgaattct	gcagatatcc	atcacactgg	720
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tactggcccc	gcgnttttac	aacgtcgtga	ctgggaaaac	ccctgcgtta	cccaacttaa	840
acgccttgc	agcacatccc	ccttttgncc	aaatgcgtaa	ttaccaaaaa	ggcccgcnacc	900
gaacggccnt	ttcccaaaag	tggcncaacc	ctgaaatggc	aaatggggccc	cccccttgaa	960
ccgngccent	taanccccc	nccggggnnt	tnggggtccc	cccacggnga	nccgttaaac	1020
ttgc						1024

<210> 62
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

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atatctgcag	aattcgccct	tagcgtgggtc	gcggccgagg	tactgatggg	gctgggttca	120
gaactcaggg	aagattttgc	aaacagaaaa	tattttttcac	agaaaaagtg	caaggaaaagc	180
agatagggat	aaacagtgtt	aaaactttct	ttcttaatga	ttcctccgat	tagcctaaat	240
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ctgtcttaag	ccttattata	aaataaaaaa	gcaataattt	gataaaatgc	taaaaatagaa	360
atgacagtga	tatttgaaaa	atcttaaaaat	gtgggaagta	ttctccatga	ctaaactaat	420
taaatattcc	caaagtggta	aaatatttca	tcattaatag	gtgattgcat	gtctgaaatg	480
aaaaatgttg	ttacttctga	atagcctgag	aaaaagaaca	tgccaacaat	ttagaaatta	540
aaccttacac	aagtgttgac	agccatagta	agaaaaagagt	gcataacaaca	aatgttaaga	600
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ctggcccgtt	ttccaatcng	ggaaanctgt	cgngcccact	ggntttaang	aatcggccan	960
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<210> 63
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 <212> DNA
 <213> Homo Sapien

<220>
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 <222> (1)...(1024)
 <223> n = A,T,C or G

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TTTTTTTTTT	ttattaaaat	actgagtttt	atttcacatg	tatatttttg	tctccccacc	240
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aaccaagcaa	agggtggagt	tccatcttta	aaaactaaac	ggcatttttg	acaacacatt	360
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catatcaaaa	tcntcatcat	catcancctt	atnaaanatcc	cctttaatna	anatcggnat	900
tnatntttat	tnagcngcaa	ggtttacttt	ttttctgggg	gaanctttgt	tanccctttt	960
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<210> 64
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

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gaagaggagg	aggatgtgaa	actcttaagt	atatctggaa	agcggctctg	ccctggagggt	300
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tcttatttca	tttctgtacc	agttgatatc	ctgctgtcct	ttttataatg	cnaagtggag	840
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ccaaaatgcc	cgntagtttt	tnaagatgga	acttcacccn	tttgcttggn	tttaagtatg	960
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<210> 65
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 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 65						
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gtaatggaaa	tgtttcattc	attaatgtta	ttgatatggt	tgcaactatgt	ccgtaatttt	180
gctttttgtg	tatctgtcta	atgtttttta	ttctcctttt	tctctttttac	tattttcttt	240
taaattaagt	aaatagttcc	taacgtagta	ttttattttc	ttaaaataaa	tcaaactcac	300
ttataaaata	tatttcatat	tactttctta	tcgattgctg	tatgccttac	aacatacatc	360
ttatcagact	caacatttat	agtaacataa	atccattgag	acatagtaac	attaattcct	420
tataggtcta	tttattctac	ttattcaata	attgttatat	atatattaca	tetacatggt	480
acaaacacaa	aaatatattg	ttataatgct	tggttttatg	taattttatg	tcttttaaag	540
aacatgagag	aagaaaggaa	agcaaagtaa	ctattagcat	tggtatgtta	acattattct	600
ttacaatttc	tggtctctct	catttttttc	ctgttgattc	aagttgtatc	ttagtgtcat	660
ttcatttctt	taatacaact	ttgctccaat	tatttctttt	gtgctcttaa	tgtcaaatat	720
attaagtttt	gnttgcatat	taggctcaac	actattatac	atatattggt	ttatgcattt	780
attttgaatt	aagagaaaat	aaaaatatgc	aatttaattg	cttatatact	attcatataa	840
ttaccctcta	tgagggtnc	ttatatatgn	attccaaccn	tatttataaa	ntccaaanta	900
cctggtangt	gccnaaggc	tectaagcct	attagcccg	aaaaaaaaatc	cctgggtant	960
tccttggnaa	gggaggtttg	attgccacca	acctntttta	natnggggtg	ggttttaata	1020
aacc						1024

<210> 66
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 66						
ggagnnnnnn	ttngtnngg	gccctctaga	tgcatgctcg	agcggccgcc	agtgtgatgg	60
atatctgcag	aattcgccct	ttcgagcggc	cggccgggca	ggtactccag	cctgggtaac	120
agagggagac	tctatgccaa	acaaacaaac	aaacaaacaa	acaaacaatg	gagaccagaa	180
agcaatgaga	tgaaatgttc	aaagtgtctg	aagaaaaaaa	aaggtaacc	aaaagtctta	240
tatccagaat	atttttcaaa	gtataaaagc	aaaatacatt	ctcagataat	aaaaacaaaa	300
caaaactaaa	gagtttggtg	ctatcatacc	taccttacaa	gaaatactca	gtgatttttt	360
tcaggcta	aggctaggag	catttggcac	ctaacagtaa	tttgaattta	tatatatggt	420
tgtatacata	tatatggaac	actcatagag	gtaattatat	gaatagttaa	ataagacatt	480
aaattgcata	tttttatttt	ctcttaattc	aaaataaatg	cataaaacaa	tatatgtata	540
atagtgttga	gcctataatg	caaacaaaac	taatataatt	gacattaaga	gcacaaaaga	600
aataattgga	gcaaagttgt	attaaagaaa	tgaaatgaca	ctaagataca	acttgaatca	660
acaggaaaaa	aatgaagaga	accagaaatt	gtaaagaata	atgntaacat	aacaatgcta	720
atagttactt	tgtcttcctt	tcttctctca	tgntctttta	aagacataaa	attacataaa	780
aaccaagcat	tataacaata	taattttggg	tttggaacat	ggtagatgta	tatatatata	840
ccattattgg	ataagtagaa	taaataggac	tattaaggaa	ataatggtac	tatggctcaa	900
tgggantaag	gtacctataa	nggtgagcct	gganaggaag	natgttgnaa	ggcttccggc	960
aatcggttta	gaaagtantt	tggaaatata	ttttnatnaa	gnggggttga	ttaatttagg	1020

aaaa

1024

<210> 67
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 67

gagnnnnnnnt	taactccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gccctttcga	gcggccgccc	gggcaggtac	tttttttttt	tttttttttt	120
ttttgaaaa	tgagattttt	gactttaaca	aaacaaatac	agattgaatt	taccaaatat	180
tgataattca	tgtanaacgg	gtgccacaga	ttttaaaagta	tcaaaaccaa	gagggcatca	240
caaaataaac	tttggtgaaa	aatatcttca	tcaaagaaga	aaatatgaga	agagtagtcc	300
ttatgcagtg	aggagaaata	tatttggtta	agtaaataatg	ggtagtagat	actgaatcta	360
tagatagcat	atattccaaa	tgtttttttag	ggaatatcaa	atcagatgat	gcttanatgt	420
tatagtaata	tcacttatct	catttgggaat	gaaatttaaat	gttttttaaat	aaatagcaaa	480
ttttcatitt	ttcactacct	ttataaaaaca	aattaaatat	ttagagtata	actgatcata	540
actaacatca	ccttgcattt	actaataaat	actctaaata	catttgggtt	attattggaa	600
tttatatcct	tataatttta	cctgctagaa	attagtgaac	ttgtggcatt	atgtttaaag	660
tttacatttt	cccagtgatg	tgaacagtat	ttatacntaa	aatggatata	tgncaatga	720
atagtaacca	tgtttggtgg	tttaaaaacc	gnacatgggt	tagtttgaca	ttggcatgtc	780
tcttcagaaa	ttnaaaaggt	atcntttaag	ggatggcgtt	tnggaaatca	tttaataaact	840
accntctggg	aaaangaatn	ccaatttcaa	gaagctacct	aantagaact	cagaccccn	900
gggcagggtg	ttggnanaaa	angctttcaa	ttncaaattn	ntntccggn	gnaaaccgaa	960
ngggaccctt	annngnntgg	accnccttcc	cngnaaactg	gttttaaaat	aaaaatttcc	1020
gnnc						1024

<210> 68
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 68

gnngnnnnnn	ntnnnttcga	attgggcoct	ctagatgcac	gctcgagcgg	ccgccagtgt	60
gatggatata	tcgagaattc	gcccttagcg	tggtcgcggc	cgaggtacct	agtagatcta	120
ctgagattaa	acgggacctg	tttgagcag	aaccttttga	cccatTTaac	tgtggagcag	180
cagatttccc	tccagatatt	caatcaaaat	tagatgagat	acaggagggg	ttcaaaatgg	240
gactaactct	tgaaggcaca	gtattttgtc	tcgaccogtt	agacagtagg	tgctgacatc	300
agaacaaga	aatcctgatt	catgtttaat	gtgtttgtat	acacatgtca	tttattatta	360
ttactttaag	ataggtatta	ttcatgtgtc	aatgttttta	aatattttta	tattttgaaa	420
atTTtctcag	ttaaatttcc	tcaccttcac	tattgatctg	taatttttat	tttaaaaaca	480
gcttactgta	aagtagatca	tactttttatg	ttcctttctg	tttctactgt	agatgaattt	540
gtaattgaaa	gacatattat	acaaataacct	gccttgtgtc	tgagttctat	ttagttagca	600
tcttgaaatt	tgtatttcatt	ttccagatgg	ctagttttatt	aatgatttcc	caaaagccat	660
accttaaaaga	taacttttta	aattctgaag	agacatgccca	atggcaaaact	aaacatggtc	720
tggttttaaaa	ccaaccaaca	tgttactatt	cattggggaca	gatatacatt	tatggataaa	780
tctggtcaca	tactggggaa	atggaaaactt	taaacataat	ggccccangg	cactaatTtc	840
ttaccggtaa	aaatnttang	ggtttaaant	nccatattna	accnatgggt	tttaaaggat	900
ttattntaaa	ngcnnngggga	ngtanntttg	acagtntncn	ctaaaanttt	aaatgggttn	960
ttaaaggtn	gaaaaaanga	aaaattgctt	ttttttnaaa	acctttaant	cntttccnag	1020
gggn						1024

<210> 69
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 69
 gggnnnnnnn tnncttanac gccnngcttg gtaccgagct cggatcccta gtaacggccg 60
 ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg cagggtactcc ggtcggtgtc 120
 agcagcacgt ggcattgaac attgcaatgt ggagcccaaa ccacagaaaa tggggtgaaa 180
 ttggccaact ttctattaac ttatgttggc aattttgcca ccacagtaa gctggccctt 240
 ctaataaaaag aaaattgaaa ggttttctcac taaacgggaat taagtagtgg agtcaagaga 300
 ctcccaggcc tcagcgtacc tcggccgcga ccacgctaag ggcgaaattct gcagatatcc 360
 atcacactgg cggccgctcg agcatgcac tagagggccc aattcgccct atagtgtc 420
 gtattacaat tcactggccg tcgttttaca acgtcgtgac tgggaaaacc ctggcggttac 480
 ccaacttaat cgcttgagc cacatcccc tttcgccagc tggcgtaata gcgaagaggc 540
 ccgcaccgat cgcccttccc aacagttgag cagcctgaat ggcgaaatgga cgcgccctgt 600
 agcggcgcat taagcgcggc ggggtgtgtg gttacgcgca gcngtgaccg ctacacttgc 660
 cagcgcccta cgcccgctct ttcgctttct tcccttccct tctcgccacg ttcgcccgtc 720
 ttccccgtca agctctaaat cgggggctcc cttttagggt tccgaattan tgctttacgg 780
 accttgaccc caaaaaactt gantanggtg atgggtcacg taatgggccc atnggccttg 840
 anaagacggt ttttcgccc ttgacngttg gagtccacgt tctttaaaag gggactcttg 900
 gttccaaact ggaacaaccn nttaancctt atttngggct aatcctttgg aattaatnag 960
 ggattttgcc caatttgggc ccttnggtta aaaaaagggg cttgntttta ccaaaaattt 1020
 aacc 1024

<210> 70
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 70
 ggagnnnnnn ttnngtttgg gccctctaga tgcagtctcg agcggccgccc agtgtgatgg 60
 atatctgcag aattcgccct tagcgtggtc gcggccgagg tacgctgagg cctgggagtc 120
 tcttgactcc actacttaat tccgtttagt gagaaacctt tcaattttct tttattagaa 180
 gggccagctt actgttgggt gcaaaattgc caacataagt taatagaaag ttggccaatt 240
 tcacccatt ttctgtggtt tgggctccac attgcaatgt tcaatgccac gtgctgctga 300
 caccgaccgg agtacctgcc cgggcggccg ctcgaaaggg cgaattccag cacactggcg 360
 gccgttacta gtggatccga gctcggtagc aagcttggcg taatcatggt catagctgtt 420
 tcctgtgtga aattgttatc cgtcacaaat tccacacaa atacgagccg gaagcataaa 480
 gtgtaaagcc tggggtgcct aatgagttag ctaactcaca ttaattgctg tgcgtcact 540
 gccgccttcc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc 600
 ggggagaggc ggtttgctga ttgggcgtc ttcgcttcc tcgctcactg actcgtgcg 660
 ctcggtcgtt cggctgcggc gagcggtagc aagctcactc aaaggcggtg atacngttat 720
 ccacagaatc aaggggatac gcaggaaaga acatgtgaac caaaaggcca caaaaggcca 780
 ggaaccgta aaaaaggccg cgttggctgg cgttttttcc atangcttcc ggcccccttg 840
 acgagcatta ccaaaaatcg acgtcaagt tcaaagggtg cgaaancccg accggactnt 900
 taagaatccc agcgttttnc cctggaactt ccttgggcgc ttttctggtt ccaaccttgc 960
 cgttaccgga tacctggncc gcntttttcc ctttngggaa accngggcnt tntcaaaant 1020
 taac 1024

<210> 71
 <211> 1024

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 71

gagnnnnnnnt	taactcccgc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtagct	tttttttttc	ttttttttaca	120
tctgatttta	atgcttcggt	aacttcaaaa	ggaactggta	gagttcagaa	ggtgagctgt	180
tgtttttcta	aacctcttcc	caggaagggg	acattgacac	ttgaattttt	gtcacctttt	240
tcctcattag	aaggaagta	gaaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	300
accccatatt	ggtcttaaat	aagtatagac	taattaacct	aagctacctt	taacaacgta	360
gaatttagat	gggttcatat	atgtgagaaa	aacctgaata	taggacaggg	gtcctacttt	420
tttccccacc	tctgtcggcc	aggctagagt	atagtgggtg	gatcttggcc	cactgcaacc	480
tctgcttctc	aggttcaagt	gattctcctg	cctcagcctc	ccaagtagct	gggattgtaa	540
gagtatgccca	ccacgcccag	ctactttttg	tatttttagt	agagacaggg	tttcatcatg	600
ttggccagga	tggtctctta	actcctgccc	tcaagtgatc	caccagagag	gagatcctcg	660
gcctcccaaa	gtgctgggat	tataggcatg	agccaccgtg	cccagcctac	tttctaatta	720
attaaaaaaa	aaaaaaaaaa	ttcccaaatg	agctgataaa	aaactgacgt	gaggctgctt	780
tgcttcaat	aatacctagt	tttcagctgt	tccaactcgt	ttccaaattg	gaaattanct	840
ggaacnccac	tacagtaatc	ttcanggaan	gggaaaatta	ggccttaaaa	gaatccccag	900
aaagttcanc	atnggnancc	tgncnnggcc	ggnccgttca	aaangggcna	aatttgccaga	960
aattccatna	cacttggcgg	gccgttcgan	catggctttt	aangggccca	attgnccctt	1020
aaag						1024

<210> 72
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 72

gnagnnnnnn	ttnnnttcg	aattgggccc	tctagatgca	tgctcgagcg	gccgccagtg	60
tgatggatat	ctgcagaatt	cgccctttcg	agcgcccgcc	cgggcaggta	ccatgctgac	120
ttcttggtat	cttttaaggc	ctaattttcc	cttccttgag	attactgtag	tgtgttccag	180
ctaatttcta	tttgaaacg	agttggaaca	gctgaaaact	aggtattatt	gaaggcaaag	240
cagcctcacg	tcagtttttt	atcagctcat	ttgggaagtt	tttttttttt	ttttaattaa	300
ttagaaagta	ggctgggcac	ggtggctcat	gcctataatc	ccagcacttg	gggaggccga	360
ggatctcttc	tctgggtggat	cacttgaggg	caggagttaa	gagaccatcc	tgccaacat	420
gatgaaaccc	tgtctctact	aaaaatacaa	aaagtagctg	ggcgtgggtg	catactctta	480
caatcccagc	tacttggggag	gctgaggcag	gagaatcact	tgaacctagg	aagcagaggt	540
tgcaagtggc	caagatcaca	ccactatact	ctagcctggg	cgacagaggt	ggggaaaaaa	600
gtaggacccc	tgctctatat	tcagggtttt	ctcacatata	tgaaccatc	ttaattctac	660
gttggttaaag	gtagcttagg	ttaattaagt	ctatacttat	ttaagaccaa	tatgggggtga	720
naatggattt	ttttttaaaa	atcctacagt	aaggctttct	actttccttc	taatgaggaa	780
aaaggtgacc	aaaantcaag	tggaactggc	ccctttctgg	ggaaaagttt	anaaaaacca	840
ccggttanct	tantggaact	ttaccaggtt	cccttttgaa	gttaccgaag	cctttaaaaan	900
cagatgttaa	aaaaggaaan	nnnaaaaagt	ncctttggcc	gggaaccnc	ttaagggccca	960
aattccacac	acttgggggg	ccgntncent	anggatccca	ncttgggncc	aaannttggg	1020
gnaa						1024

<210> 73
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 73
 gagnnnnnt tnaacttacac gccngcttgg taccgagctc ggatccctag taacggccgc 60
 cagtgtgctg gaattcgccc ttagcgtggg cgcggccgag gtactgtgtt atggcacaga 120
 caatgcttgc ttagcgggtg cttgttacat aggtggatgc agagtgcgca cacgggatga 180
 tggcaataaa gacctcactc agtcgttggg atgaaggaa taggtaactg cttcaacaag 240
 gacgggtctca gctctacctt atctctcaac agagtgcgaaa cactgagtggt gagctcagat 300
 gtcattctgt tctcttttaa aattcaccaa attcttttgc acatttttct gttatagaga 360
 cacggatata tctctcttca tagtcataca agttgctggg atctccagag cctctaaact 420
 ttggtatgaa tggagcttca accttcctct ggtaaataagc aatccaatct gtcgtggcaa 480
 accacttggt agtttttata tcaactgacac cattctttag atttccaaat ctcttgatca 540
 aatccacctg cagcagggtc cgtagaagggt ccttgagatc tgaactgaag tgggatggga 600
 atcggacctt tccagaaaca atcttttcat aaatctgaat tgggtggtct gcaaagaatg 660
 ggggatagcc agctgcccatt tcatagatta gcactcctaa tgcccaccaa tccactgcct 720
 tattgnagcc cttgctgaga attatttctg gagccaaata cctctggagt tccacataat 780
 ggccaagttc tgcctttaac tcttttggca aacccccaaa gtctgtgacc cgggatatag 840
 ccctgatggg ccaatttaag aagaattttc anggggttaa aaactctggt aaatgaaggc 900
 taanggaaat ggaggnacct tttttttttt nnnnnnnntt ttttttttna acnttgtaaa 960
 aggccaaaat tttggctana anttantttc aaagnttnaa accntttcca aatttttttt 1020
 taat 1024

<210> 74
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 74
 ggagnnnnnn nttgagttcc ggccctctag atgcatgctc gagcggccgc cagtgtgatg 60
 gatatctgca gaattcgccc tttcgagcgg ccgcccgggc aggtacagtc aactgcattt 120
 ttctctggtg accaagcttc cactgacaag gaagaggatt atattcggtt tgcccattgg 180
 ctgatatctg actacatccc taaagaatta agtgatgact tatctaaata cttaaagcct 240
 ccagaacctt cagcctcatt gccaaatcct ccatcaaaga aaataaaagt atcagatgag 300
 cctgtagaag caaaagaaga ttacactaag tttaatacta aagatttgaa gactgaaaag 360
 aaaaatagca aaatgactgc agtcagaag gctttggcta aagttgacaa gagtgggatg 420
 aaaagtattg ataccttttt tggggtaaaa aataaaaaaa aaattggaaa ggtttgaaac 480
 ttgaaaaata aaatctagca aaaatatatt ctttttacat gttttaaaaa aaaaaaaaaa 540
 aaaaaaaaaa aagtacctcc attcactaga cctcatctac agagatctaa aacctgaaaa 600
 tctcttaatt gaccatcaag gctatatcca ggtcacagac tttgggtttg caaaaagagt 660
 taaaggcaga acttgacat tatgtggaac tccagagtat ttggctccag aaataattct 720
 cagcaagggc tacaataagg cagtgggatt ggtgggcatt aggagtgcta atctatgaaa 780
 tggcactggc tatccccatt cnttgagac ccaccattc agaatttatt gaaaaagatg 840
 gttcttggaa ngncgaatt cccattcccc ttcagntcna actcaagggc ctttttacgg 900
 aancctggtt gcanggggga ttgatccagg anaatttggg aatcttaaag aaaaggggnc 960
 cgggggttta aaaacctcnc aagnggggtt gccccancg naatgggatt ggtttttccc 1020
 ccna 1024

<210> 75
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 75

gagnnnnnnnt	taactcccg	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtacta	tatgtatttt	attaaaaaatg	120
tggaagatta	atctgtttct	ctctgaatgt	agattttcac	caaaacatct	cttaaaacag	180
cagggactca	acacttaaaa	atgaactaga	agagctgggc	acagtggctc	acgcctgtaa	240
tcccagcact	ttgggaggcc	gaggcgggca	aatcacttga	ggtcaggagt	tcgagaccag	300
cctggccaac	atggtgaaac	cctgtctcta	ctaaaaacac	aaaaattaac	tgggcatggc	360
ggcacacgcc	tttaatccca	gctactcaag	aggctgaggc	aggagaatcg	ctttgaacct	420
gggaggcaga	ggttgcagtg	tgctgagatc	ataccactgc	attccagcct	gggcgacaga	480
gcaagactcc	acctcaaaaa	aaaaaagaag	aaaagaaaat	agtagtctca	gccaggcgtg	540
atggctcaca	cctgtaatcc	cagcactttg	ggaggccaag	gtgggcagat	cacctgaggt	600
caggagtctg	agaccagcct	ggcctacgtg	gcataacctc	atctctaata	aaaatacaaaa	660
aattagcttg	ggcgtgggtg	catgcacctg	tcacccagc	tatttgggag	gctgagacag	720
gagaagtcgc	tttgaacctg	ggangcagaa	aattgcggtg	aagctaagat	cgcacgactt	780
cacttccacc	tgggcaaaag	anggaactct	atctcaaaaa	aaaaaaangg	aaaaagtagt	840
ctntaagaca	ctgggcaaac	cttgaaagga	attgagcagt	cctcactttt	ctgnagtcan	900
tttgntnaat	gccacatggc	tcttttgnaa	gaaatttgag	agcttttttc	taatcccaat	960
ttttntaatt	tggaattcc	tttttcggga	ttttttcntt	gccngngngt	gttcccaang	1020
gcct						1024

<210> 76
<211> 1024
<212> DNA
<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 76

gnngnnnnnn	ttnnnttgng	antngggccc	tctagatgca	tgctcgagcg	gccgccagtg	60
tgatggatat	ctgcagaatt	cgccttttcg	agcggccgcc	cgggcaggta	ctctttgtgg	120
ctggcttctt	tttctgcaca	caatgcctat	gagaccataa	ctaaagtcaa	attccatggg	180
cactaaccaa	taatggcatc	tcaaagaaat	tccaacctag	agaaattctg	atgatgtggg	240
tagaacacca	atcaggacac	tcacttcctg	gttgataatt	cccacatgc	actgattcag	300
accagctta	ttgaattcat	tgagtccaca	ggccagcact	ttgcctgact	gggtcaacag	360
aaatgtccca	tcacagccac	attgaactgc	aacaataatc	aaggccttgg	gaacatccac	420
ctgcaagaaa	aaaatcagaa	aaagaaatcc	caaatatata	attcgtatta	gaaaaaaagc	480
tctcaaatte	tttcaaaaaga	gacatgctgc	atttagcaga	atgactacag	gaaagtggag	540
actgctctat	tcttttcagg	tttgcccagt	gtcttagaga	ctactttttc	tttttttttt	600
tttgagatag	agtttccctc	ttttgcccag	gctggagtga	agtccgtgcg	atcttagctc	660
accgcaatct	ctgcctccca	ggttcaagcg	acttctcctg	tctcagcctc	ccaaatagct	720
gggatgacag	gtgcatgcc	ccacgcccag	ctaatttttg	gattttttatt	agagnatgag	780
gttttgccac	gtaggccaag	ctggncttga	acttctgacc	ctcaagtgc	tgccaccct	840
tgggccttcc	aaagtgtctg	gaattacagg	gngagccatt	acgcctggnn	tgaaactcca	900
atttcttttc	ttcttttttt	ttttgngggg	gagettgctn	tgcncccaag	ctgggaaagc	960
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nccc						1024

<210> 77
<211> 1024
<212> DNA
<213> Homo Sapien

<220>

<221> misc_feature
<222> (1)...(1024)

<223> n = A,T,C or G

<400> 77

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ttttttttac	agaaggctgt	aaagctttat	tgggagaatt	ttaatgaaca	aatttccaac	180
ataggagcag	cctgcatcat	ttcaacgtgc	cttcttttaa	cactgtgatt	gcttttcacc	240
ttcttcaggc	gttttcacct	cctctggatt	tggcgggtcc	atctcctgcc	catcaggacc	300
atcttcacac	tcacacccag	tctgtgggtg	accctgttcc	tggctatgag	cttcaggcctt	360
cgcccttga	cctgcanatg	ctccctcatc	ctctccctcc	tgagcagctg	caggatcctg	420
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caangngacc	ggtacacttg	gcaangccct	aacgcccggg	ccntttgntt	ttctttcctt	900
tcnttttngc	acgtttnncc	gggttttccc	ggnaagctnt	naaatngggg	ggccccctnt	960
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<210> 78

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

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<222> (1)...(1024)

<223> n = A,T,C or G

<400> 78

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ttgggcctat	gcggcccgag	cagttcagtg	atgaagcgga	accagcaaca	cctgaagaag	180
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ctgggtgtga	gtgtgaagat	ggtcctgatg	ggcaggagat	ggacccgcca	aatccagagg	360
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atgatgcagg	ctgctcctat	gttggaattt	tgttcattaa	aattctccca	ataaagcttt	480
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tgcattaatg	aatcggncaa	cgccccgggg	aaaaagcggg	ttgcgtattg	ggcgtcttc	840
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cttacttcaa	angcgggaaa	tccggttttc	cncggaaatc	aggggaatac	cccnggaaaa	960
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<210> 79

<211> 1024

<212> DNA

<213> Homo Sapien

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<222> (1)...(1024)

<223> n = A,T,C or G

<400> 79
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 gcttctttct ccaggaaaga tcaaaacgat gcaactgcaag gttaacatcc aatttttaaat 180
 acattgtgat tgggtccagat agctgcctta tccaactgcc tcccttggac cacttcatca 240
 tgggacagct tgaatgcaatc tacttgacaa gacctggaa cccacacccc ctcatggaac 300
 cagtgtccac ctcccagtc cagtgtgacc ccagggaact cttgcctgct tgctttaaac 360
 ccaccactta aaagtctcca cagaaaacct gtttgaatag tacctcggcc gcgaccacgc 420
 taagggcgaa ttctgcagat atccatcaca ctggcggccg ctcgagcatg catctagagg 480
 gcccaattcg ccctatagtg agtcgtatta caattcactg gccgtcgttt tacaacgtcg 540
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 cagctggcgt aataagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc 660
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 gtgagggtca cgtatgggcc attggccctg aaaaacgggt ttttcgcccc tttgaccctt 960
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 ttng 1024

<210> 80

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 80
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 gttttctgtg gagactttta agtgggtgggt ttaaagcaag caggcaagag ttccctgggg 180
 tcacactgtg actgggaggt ggacactggt tccatgaggg gtgtgggggt ccagggtctt 240
 gtcaagtaga ttgcatcaag ctgtcccag atgaagtggg ccaaaggagg cagttggata 300
 aggcagctat ctggaccaat cacaatgtat taaaaattgg atgttaacct tgcagtgcac 360
 cgttttgatc tttcctggag aaagaagctg gtgcaaatga caaaaacagt acctgcccg 420
 gcggccgctc gaaagggcga attccagcac actggcggcc gttactagt gatccgagct 480
 cggtagcaag cttggcgtaa tcatggatcat agctgtttcc tgtgtgaaat tgttatccgc 540
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 gtnaaaaang gccnctnn nnctngttt ttccattaag gttcccgccc ccttgacagc 960
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<210> 81

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 81
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ttttgttgtt tcattttttt ctaatgtctc cctctacca gctcacctga gataacagaa      180
tgaaaatgga aggacagcca gatttctcct ttgctctctg ctcattctct ctgaagtcta      240
ggttacccat tttggggacc cattataggg aataaacaca gttcccaaag catttgagaca      300
gtttcttgtt gtgttttaga atggttttcc tttttcttag ccttttctctg caaaaggctc      360
actcagtcct ttgcttgctc agtggactgg gctccccagg gcctaggctg ccttcttttc      420
catgtcccac ccatgagccc tccactggac agctcagtaa gcctggccct tcattctgcg      480
ctgtgttctt cctctgtgaa aatccaatac ctcttacctc ctctgcatgc aaagattctc      540
aaggattgtc agacttcaaa cgtaacagca gaaccaccag aaggtcctat aaatgcagta      600
gtgaccttct caagctgtca ggtcttttaa taggatttgg gatttaaatgc tatgtatttt      660
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atctgcccc aaactttttt naaaagtcaa gacagataaa gctttggggg agacngaaaa      780
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aaatncatta cactggggcg gcggtttgag cattgcntnt anangggccc aattngnccct      900
ataanggggg cgattacaat tncctggggc gcgtttttaa acgtningaac tgggaaaanc      960
ctggggtnc cacttaaatg gccttggnga naatccccct tttncnncan tggngnannn     1020
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<210> 82

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 82

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atatctgcag aattcgccct tagcgtgggc gcggccgagg tactcttttt tttttttttt     120
ttttccgtct ccccaaagct ttatctgtct tgacttttta aaaaagtttg ggggcagatt     180
ctgaattggc taaaagacat gcatttttaa aactagcaac tcttatttct ttccttttaa     240
aatacatagc attaaatccc aaatcctatt taaagacctg acagcttgag aaggtcacta     300
ctgcatttat aggaccttct ggtggttctg ctggtacgtt tgaagtctga caatccttga     360
gaatctttgc atgcagagga ggtaagaggt attggatttt cacagaggaa gaacacacgcg     420
cagaatgaag ggccaggctt actgagctgt ccagtggagg gctcatgggt gggacatgga     480
aaagaaggca gcctaggccc tggggagccc agtccactga gcaagcaagg gactgagtga     540
gccttttgca ggaaaaggct aagaaaaagg aaaaccattc taaaacacaa caagaaactg     600
tccaaatgct ttgggaactg tgtttattgc ctataatggg tccccaaaat gggtaacctt     660
gacttcagag agaatgagca gagagcaaag gagaaatctg gctgtccttc cattttcatt     720
ctggtatctc aggtgaactg gtaaaaggga gacatttgaa aaaaatgaaa cnaccaaaac     780
cattactaat gaggtacctg ccnnggcngg ccgttcnaaa gggccaattc cacacactgg     840
gcggccggtta cttaatggat ccnaactcgg taccaancnt tgcgtaaatc atggggcnnnt     900
actgggttnc ctgggggnaa atggtatncc gttaccaatt ccccccaann ttcgancccg     960
gaanccctta agggtaaanc cctggggggc ctnaagaggg gctaacttcc catttaaattg     1020
ggtt                                     1024

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<210> 83

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 83

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gggnnnnnnt taanttanac gccnnncttg gtaccgagct cggatcccta gtaacggccg      60
ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg caggtaactt taaaattggg     120
gccgagcagg gatataacct gcagttaagt gaaaagaaaa tccagcctcc ccctccaaaa     180

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aaaaaaaaaa	atttaatttt	taaaaattag	tggtatggca	ataagacact	tcagaggcta	240
tcttaacctc	tgaataccca	tcttctagtt	taaagacaga	gacatcccat	ctggaaaatg	300
ttacttggtg	ttgtcatctc	gttgccggag	taagtagaca	taagacagag	tttaagaagt	360
aaaaatatag	aaaaattttg	atggtcacaa	tgagataaat	attagaatat	tactattcca	420
atgattaaat	gaggatcctg	aaataaattc	tgaagtcttc	caattttttac	atttattgga	480
ggggtccctg	agttctgtca	acttttttat	ttaagtctct	tgctcttatt	ttgtgcataa	540
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ctaagtgtaa	nctatcccaa	atgggctatc	caaatttgaa	tggnngccct	catactgnga	960
aggaaaaang	tggnccctng	ccgggaacac	ccttangggc	caattttgag	anttccttac	1020
aatt						1024

<210> 84

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 84

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tgtagtggca	cacattcaaa	atcgtataga	ccatatgagg	atagattaca	acttagaaac	180
taaaaataat	ttgttcaaca	ctccagacaa	catatagtgt	agatgacagg	aaagctctca	240
tgtaatgttt	atttcacaaa	catgaccttg	gaagaattca	taagacagca	tccagtcac	300
ttacatgaga	aaagaaaaac	cagcttgagt	ttaagatagc	aaatctttct	gtaaaaactag	360
caaatctttc	accagactg	aagtttttaa	atttgccctt	tgagcagtgc	tagagacatc	420
ttactgcaaa	taatgcaaaa	tactttttta	ctactcaggt	catattttct	attaaattta	480
ataaaaaagt	aaagaaagaa	agctaacatt	tcatttttgg	aaggtttaac	atztatgcac	540
aaaataagag	caagagactt	aaataaaaaa	gttgacagaa	ctcagggacc	cctccaataa	600
atgtaaaaaat	tggaagactt	cagaatttat	ttcaagatcc	tcatttaatc	attggaatag	660
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tgggangggg	aaggctggat	ttcctttcnc	ttaacctnga	gggtatatcc	cctgnttggg	960
acccaatttt	aagngnacct	ggcccgggcn	ggccgttcaa	aagggcgaat	ttccgcncct	1020
gggc						1024

<210> 85

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 85

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gctggaattc	gccctttcga	gcggccgccc	gggcaggtac	gcggggagag	agaagcgagg	120
ttctcgttct	gagggacagg	cttgagatcg	gctgaagaga	gcgggcccag	gctctgtgag	180
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gtgggtcccc	atcgcccaag	tctgcccac	actcccacct	gctaccctga	tcagagtcac	360
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tgagacacag	ggcctcgagg	gtgcacaggc	tcccctggct	gtggaggagg	atgcttcac	480
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ccctccaan	gcnnngcnn	ngnctttgg	gcnttgangn	nnaanggnaa	gggatcccn	960
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cnnn						1024

<210> 86

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 86

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tttctgcac	ccaatcttgg	gtgagcagct	tcttgggctc	cccataaatg	aggtgctcca	180
tcccatcata	cagccccatc	atattcagtg	cttcccagat	gacctcctca	ggggtgcagt	240
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ggacatcact	cagcatccca	tcataggtga	ggcccaggga	ggtgacaagg	acaaaggagt	360
ggccagtg	atccacttcc	tttacatcaa	tgccaaagac	cagcagcatg	cactcggagg	420
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ccna						1024

<210> 87

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 87

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gttccagcat	ctttggtagc	ctgacgctga	gagtcattaa	agtaagctgg	cactgtgacc	180
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accatagaag	acacctcctc	tggatagaag	cttttgggtc	ctcccttgta	ttctacttgg	300
accttggggc	tgccagcatc	attcaccacc	ataaaggggc	aatgtttcat	atcagactgg	360
acaacagcat	catcaaatct	gcgtccaatc	agacgtttgg	catcaaaaac	tgtgtcggtg	420

gggttcattg	caacttgatt	ctttgctggca	tcaccgatca	accgttcagt	gtccgtaaag	480
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acttgggaaa	accctggggg	acccaactta	atcgncttgn	agcacaatcc	ccntttnncc	900
anctggcgga	antnaccnaa	aaggcccgna	ccgaacggcc	ntttccaaaa	gttgcncaan	960
cctgaaangg	caaaaggacc	cccccttta	acggggccat	taaaccccn	ncngggnnnn	1020
nngg						1024

<210> 88

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 88

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caacattcca	anccggaagc	cttnagtgtc	aagccctggg	tgcccttaag	agtgaagctta	900
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<210> 89

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 89

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atgtattact	tcttttttaa	ggttgaacaa	tattccactg	tgtgtgtgtg	tgtgcacgtg	420
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agaaaagaag	ttctgcaggc	tatacaagca	tggtgctggc	atctgcctgg	cttctgggga	600
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 <213> Homo Sapien

<220>
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 <223> n = A,T,C or G

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aaaaagagcc	actttgtcat	taaagtgaat	gagtatgcat	ttttagaaca	gacttgatgt	300
ttggattgtg	ttaaacatat	gtctgttagt	gaaagtgtta	gtcacaaaga	taaaatttca	360
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ttctgtaaac	ttttagtctt	ttataagggt	tgtgatatca	tttaaaaatt	tttctgtatt	480
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<210> 91
 <211> 1024
 <212> DNA
 <213> Homo Sapien

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gagnagcctt	aaaaaggggg	caangtaang	gttttcnggt	atggaagcca	aaanttttnc	960
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<210> 92

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 92

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tctagcatgt	aataaataat	cgctagccat	actcaataag	acacggaaaa	attattgctt	300
acataacaga	aaaacatcta	cttgaccccc	ttttatgact	acatcaatct	attaggagtg	360
tatccatagt	ctacattcac	aaaatgtcat	cttgacttat	tgccattga	tttaaggcag	420
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ctacattgtg	atgcttttta	ataacttgac	tcctttcttg	gccagctgaa	actcgtcgca	540
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accacatcat	ataccacata	gattctatta	agaatggact	taacgctttt	ctttggacac	780
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<210> 93

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 93

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ggngnccgt ttnaacctgc cttttaaagg gcccaattnn nccctntna nnggagcgan      960
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<210> 94
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

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<400> 94
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gatggaggtg gagggttgat ttgggaagca gagcacagca gcacaaatct gcttgtaatg      180
tcggcgacta cagtcttctag cctgctggcc tgccttcact gtcctggggg aagctcgggg      240
agaccaggtg gactggagta gactgttgag agacactggt ctggtgaaga tgtccaggaa      300
accacgagcc tccagcccat tttccaacaa ccacccatca acaccaaaga ggttcccaag      360
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caactcgnc caaannttgn gnaaacatgg gnnnanatgg gntcctgggg ggaaatgtat      960
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<210> 95
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
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<222> (1) ... (1024)
<223> n = A,T,C or G

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cgtctcccca aagctttatc tgtcttgact ttttaaaaaa gtttgggggc agattctgaa      180
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taatgaggtg ccttngncc gggaacacgc ttaaggcgaa ttttgcagaa atncattaca      840
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caatttnant gggcccggtt ttacaacgtn nggaactggn aaaaccctg gggtnnccca 960
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 cnaa 1024

<210> 96
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

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<210> 97
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 97
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 tgttgctcaa actggtcaat ccagttgctt aacacagaaa gcggacagat gatcagtgtt 180
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 aggagagggt gggagagggc ggaaggggga aagctgtccg tgggagattg tgtcttcattg 480
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ttaa

1024

<210> 98
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<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

<400> 98
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ttgtaatccc aacactttct attttctaga atcttctttg ttcattgggt ggtttttcag 180
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<210> 99
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<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

<400> 99
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agagggtaaa atgaaatctg ccccatcctt cttacatata cagtgatagc attttgaatt 180
gttcttctac atttgaaatc ttagctgaaa gatcatcagc caccgacctt ttgtgaagct 240
agttctctag aacatacaat gtttttttaa aaattaaaaa cacagaagga aaaaagcaag 300
aaccaacgat aaatggagct tgtgcagaat ctggcagtg cgttgacctg cccatctgtt 360
ctcccccgcg tactgactga acacactccc cgctttgggt cctgtaggac ggggtgagata 420
ccacaccttg gcaaccacca gtaaaggctc atagtctagc ccttggggag ccccgatttt 480
agggtctgtc tcggaggcga cctacgcttag ggactgggag aagcgggtac ctcggccgcg 540
accacgctaa gggcgaattc tgcagatata catcacactg gcggccgctc gagcatgcat 600
ctagagggcc caattcgccc tatagttagt cgtattacaa ttcacttggc ccgtcgtttt 660
acaacgtcgt gactgggaaa accctgccgt taccacaact aatcgccctg cagcacatcc 720
cccttttcgac agctgcgtaa taacgaaaag cccgnaccga tcgccccttc cacagttgcg 780
caacctgaat ggcnaatgga ccccccttg taccggcgca ttaaccnccn gccggntnnt 840
ggggtacccc cacgtggacc ggttcaactg gccagggccc taangnccgg ttcttttggg 900
ttcttncctt ccttttttng cccgttngcc nggtttttcc cgtaagcttt taaannggg 960
gcttccccct ttanggggtc aaataangct ttacgggncc tttaaccccc aaaaaaattt 1020
nnnt 1024

<210> 100
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 100
gggnnnnnnnn ttngttcng aattgggccc tctagatgca tgctcgagcg gccgccagtg 60
tgatggatat ctgcagaatt cgcccttagc gtggtcgcgg ccgaggtagc cgcttctccc 120
agtcacctaac ctgagtcgcc tccgagcaca gccctaaaat cggggcctcc caagggctag 180
actatgagcc tttactgggtg gttgccaaagg tgtggtagct caccgcctcc acaggaacca 240
aagcggggag tgtgttcagt cagtacgcgg gggagaacag atgggcaggc ccacagcact 300
gccagattct gcacaagctc catttatcgt tggttcttgc ttttttcctt ctgtgttttt 360
aattttttta aaaacattgt atgttctaga gaactagctt cacaaaaggc cgggtggctga 420
tgatctttca gctaagattt caaatgtaga agaacaattc aaaatgctat cactgtgtat 480
gtaagaagga tggggcagat ttcattttac cctctagtct ccctcaatgc atgcacggat 540
ttatctgtac ctgcccgggc ggccgctcga aaggggcaat tccagcacac tggcggccgt 600
tactagtga tccgagctcg gtaccaagct tggcgtaatc atggtcatac ctgnttcctg 660
tgtgaaattg ntatccgctc acaattccac acaacatacg agcccggag ccataaagtg 720
tnaaagccct ggggtgcctn atgagtgcgc taactcacat ttaattgcgt tgcgctcact 780
ggcccgnttt cagtcgggaa aactgcntgc cactgcttaa tgaatcggcc acgccccggg 840
gaaaaagcgn ttgcgtantg ggcgctnttc cgctttcttg gttaactgac tcnttgggct 900
ttggccttng gnttnnggnn aacgggttna acttncnttn aaangggggg naatccggtn 960
tnccccgaaa nncggggata acccccggaa anaactttgn ccnaaaggcc ccnaaaangg 1020
cccn 1024

<210> 101
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 101
gggnnnnnnt tgaatnacac gccagcttgg tacegagctc ggatccctag taacggccgc 60
cagtgtgctg gaattcgccc ttagcgtggg cgcgcccgag gtacgcgggt attttcttaa 120
atttcttgaa tgttctttat ggtagtgtta ctaaaaagtt tatgatcaca ttttcattgt 180
gaacataatt tgaactcatt atcacacact tggaaaatac agaaaagtgg aggaaaaaaa 240
atcatatccc caccatccaa agacatatac tctcctctta tcttgttcat tcttgtttct 300
gtgcacaggt ttatgattat aactgtgtca aaatgtatat tcaaaatagc tgttacatta 360
cctttgtgga attatgggta aatactttca ctttaatttt ttcaaagtgt ccctataata 420
atgttctgat aacagtgtat tatgtgtgtc tccattgggtg tgcataatac ataccagag 480
gaaaaattag aaaataaagt aaattatttt aaaaaattac ctatatcccc aacacctaac 540
aactactgct aacatcttga tctgtttcct ctatcttgtt tcagtgcaca cgcttgtgat 600
aacagtgtta aatatgtgtg cataaagctc taaatgaaaa gatgtggaaa ataactaaaa 660
tagtgttgtc attgtgggaa tttggttaaa tattttgtct caaattcctt aaataactct 720
tggtgttttg gtaataaatt ttaatgatgt attttccatt acaaatataa tacatactca 780
tacaaaactt tggaaaatta gtaaagaaaa ttccacacata ttcccacacc caacaccaat 840
ttaactggtn accatctgga ctgngcncta agctgggatt antttaggng tagtggataa 900
gtatgcctaa aggccaaaaa tgggaagaag gatgaaaanc cngaaaatan ttncctgggt 960
gtngggggaa taaggggaat ttgggttcgg ttcccttgaa agggcatnnn tttcaagggg 1020
tttg 1024

<210> 102
<211> 1020

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1020)

<223> n = A,T,C or G

<400> 102

ggagnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttccga	gcgcccgccc	gggcaggtac	tctttctctc	ccctcctctg	120
aatttaattc	tttcaacttg	caatttgcaa	ggattacaca	tttcaactgtg	atgtatatattg	180
tggtgcaaaa	aaaaaagtgt	ctttgtttta	aattacttgg	tttgtgaatc	catcttgctt	240
tttccccatt	ggaactagtc	attaacccat	ctctgaactg	gtagaaaaac	atctgaagag	300
ctagtctatc	agcatctgac	aggtgaattg	gatggttctc	agaaccattt	caccagaca	360
gcctgtttct	atcctgttta	ataaattagt	ttgggttctc	tacatgcata	acaaaccctg	420
ctccaatctg	tcacataaaa	gtctgtgact	tgaagtttag	tcagcaccct	caccaaactt	480
tatttttcta	tgtgtttttt	gcaacatatg	agtgttttga	aaataaagta	cctcgccgc	540
gaccacgcta	agggcggaatt	ctgcagatat	ccatcacact	ggcgccgct	cgagcatgca	600
tctagagggc	ccaattcgcc	ctatagttag	tcgtattaca	attcactgcc	cgctgtttta	660
caacgtcgtg	actgggaaaa	ccctgcgtta	cccaacttaa	tcgccttgca	gcacatcccc	720
ctttcgccag	ctggcgtaat	aacgaaaagc	cccgaccga	tcgcccttct	caacaggtgc	780
gcaacctgaa	tggcgaaatg	gacccccct	ggaaccggcg	cantaaacc	ccgncggggn	840
nnnggggtac	ccccacggg	ganccgttca	cttgccann	gccctaangn	cccgttcctt	900
tnggtttctt	tccttccttt	ttgcccgttt	gnccgggttt	tcccggnaag	ctttaaaaac	960
gggggctcc	ccctttangg	gtcnaataa	nggcttttac	gggnccttng	aaccccaaan	1020

<210> 103

<211> 1021

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1021)

<223> n = A,T,C or G

<400> 103

ggagnnnntn	ngnngggccc	tctagatgca	tgctcgagcg	gccgccagt	tgatggatat	60
ctgcagaatt	cgcccttagc	gtggctcgcg	ccgaggtact	ttattttcaa	aacactcata	120
tggtgcaaaa	aacacataga	aaaataaagt	ttgggtgggg	tgctgactaa	acttcaagtc	180
acagactttt	atgtgacaga	ttggagcagg	gtttgttatg	catgtagaga	acccaaacta	240
atattattaa	caggatagaa	acaggctgtc	tgggtgaaat	ggttctgaga	accatccaat	300
tcacctgtca	gatgctgata	gactagctct	tcagatgttt	ttctaccagt	tcagagatgg	360
gttaatgact	agtccaatg	gggaaaaagc	aagatggatt	cacaaaccaa	gtaattttta	420
acaaagacac	ttttttttt	gcaacacaat	atacatcaca	gtgaaatgtg	taatccttgc	480
aaattgcaag	ttgaaagaat	taaattcaga	ggaggggaga	gaaagagtac	ctgcccgggc	540
ggccgctcga	aaggcggaat	tccagcacac	tggcgccgct	tactagtggg	tccgagctcg	600
gtaccaagct	tggcgtaatc	atgggtcatag	ctgnttctct	tgtgaaattg	gtatccgctc	660
acaattccac	acaacatacg	agcccggag	cataaagtgt	aaagccctgg	ggtgcctaata	720
gagtgaagta	actcacatta	aatgcgttgc	gctcactggc	cgctttncag	tccgggaaac	780
ctgtcgtgcc	agctgcatta	atgaatccgg	ncaacgcgcc	ggggaaaaag	cggttgcgta	840
ttggggcgctc	ttncgctttc	ttggttactg	gctccttgng	cctcgccgct	tccgnttcg	900
gnnaaccggt	atcagcttac	ttcaaangcg	gnaaatccgg	tttncccnga	aatccggggg	960
ttaacnccag	gaaaanaacc	tttgaaccna	aagggccccn	aaaaggggcc	ggaaccctaa	1020
a						1021

<210> 104

<211> 1017

<212> DNA

<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1017)
<223> n = A,T,C or G

<400> 104

ggagnnnntta	atcnacgcn	gcttggtacc	gagctcggat	ccctagtaac	ggccgccagt	60
gtgctggaat	tcgcccttag	cgtggtcgcg	gccgaggtag	tcagctgtct	taataggatg	120
aagccttaag	cagtggaaat	ttcagttatt	ttccacagta	ttccattttg	gaggatttgg	180
ggtgtttact	ttttaaatc	ttgaacaact	taacctccat	gaggctttgt	gaagtcagct	240
gtgaccaccc	tcctcttact	gtgttctcag	tattcattca	cttccaggga	agaatgacag	300
ccacagggag	atggtggtgg	gcaagaatga	gagtcgccagg	atccagattt	agcctcagat	360
cttccccatt	caggaagggt	tttccattta	acaagagcac	tagtatgaaa	acattagggg	420
caaattctccc	atgtctttga	aattcggatt	ctcctcttga	gatccccctc	ctcacctgcc	480
aatcaacttt	ataaggccac	aagtggtcac	tggttttctc	tccacagggt	tgaggttctc	540
agctttcctt	aagcgaccca	gcagctccgc	tgttttcaga	gtgaatatgt	taagctttga	600
tgagattcta	ttttcagtaa	gttagtgctt	ctgggacact	tggagaaagc	tgtgagagtc	660
attggctacg	caaagaacaa	cgaaagctga	tcctaaaagt	gatccaatct	aagaaaatgg	720
taaaacgagc	tctggccaca	gcacagaatt	ttatgtgang	aactcagatt	tttgaagact	780
taacaattgc	agaaaaaggn	tgcagcctgn	acacccatag	cccaactttt	ntgagccana	840
ctttgggttt	tggnggggga	cntggcacca	tgtttgnacc	tggccggccg	gnccgttcna	900
aagggccaaa	ttntggcnga	aatnccttac	actggggggc	cgtttgagca	tgctntaaa	960
ngggcccaan	tnngccctta	aaggggggcn	nnttccaatt	nnctggggcc	ggttttn	1017

<210> 105
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 105

ggagnnnntt	nnntnnngan	tgggcccctc	agatgcatgc	tcgagcgggc	gccagtgtga	60
tggatatctg	cagaattcgc	ccttttcgag	ggccgcccgg	caggtacaaa	catgtgccac	120
gtcaccacac	aaaaccaaag	tctgttcaga	gaggtgggct	atggtgtgea	ggctgcaacc	180
tttctctgca	attgttaagt	cttcaaaaat	ctgagttcct	cacataaaat	tctgtgctgt	240
ggccagagct	cgttttacca	ttttcttaga	ttggatcact	tttaggatca	gcttcgttgt	300
tctttgcgta	gacaatgact	ctcacagctt	tctccaagtg	tcccagaagc	actaacttac	360
tgaaaataga	atctcatcaa	agcttaacat	attcactctg	aaaacagcgg	agctgctggg	420
tcgcttaagg	aaagctgaga	acctcaaacc	tgtggaagga	aaaccagtga	ccacttgtyg	480
ccttataaag	ttgattggca	ggtgaggaag	gggatctcaa	gaggagaatc	cgaatttcaa	540
agacatggga	gatttgtccc	taatgttttc	atactagtgc	tcttggttaa	tggaaaaccc	600
ttcctgaatg	gggaagatct	gaggctaaat	ctggatcctg	ggactctcat	tcttgcccac	660
caccatctcc	ctgtggctgt	cattcttccc	ctgaagtga	tgaatactga	gaacacagta	720
aggaaggagg	gtggtcacaa	gctgacttca	caaagcccta	atgganggtt	aagttggtca	780
agaatttnaa	aagtaacccc	cccaaatcct	ccaaaaatgg	gaatactggg	ggaaaataac	840
ctggaaattn	ccctggttta	aggcttcatt	ctattaagac	cgcttgagta	cccttggccg	900
ngaacccct	taagggcgaa	ntncaacaca	ctggnggggc	cggtacctaa	nggatcccaa	960
ctnggnaccc	aancnttggg	gaaancatng	ggccataact	gggttcccgg	ggggaaatgg	1020
taat						1024

<210> 106
<211> 1007
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1007)

<223> n = A,T,C or G

<400> 106

```

ggagnnnnntt aaacgccagc ttggtaccga gctcggtacc ctagtaacgg ccgccagtgt      60
gctggaattc gcccttagcg tggtcgcgcc cgagggtadac agaatagctg agcagttcac      120
ttcaggggatc aggtcatctc tgctcctcct agtttcacca tgttctggca ataaaaaaca      180
catattatat cctggttttc tctatccttg cattactaag gtgactgtct ctctttatac      240
atccttgtagt ggttctccca gtattagcaa gattgtatat ctgtaaagaa tgtccagttt      300
tgtaaatatt tccctgcctt tttttttctt tttttacatc tgattttaat gcttcggttaa      360
cttcaaaaagg aactggtaga gttcagaagg tgagctgttg tttttctaaa cctcttccca      420
ggaagggggac attgacactt gaatttttgt cacctttttc ctcattagaa ggaaagtaga      480
aagccttact gtaggatttt taaaaaaa tccatctcac cccatattgg tcttaataaa      540
gtatagacta attaacctaa gctaccttta acaacgtaga atttaanatg gggtcatata      600
tgtgagaaaa acctgaatat aggacagggg tctactttt ttccccacct ctgtcgccca      660
ggctagagta ntaantggtg gatcctggcc cactgcaacc tctgcttcta gggtaagtg      720
attctcctgc tcagcctncc aagtancccg ggaattggaa gagtatgcca ccacgcccag      780
ctactttttg gaatttttagt nnaaaacagg ttcacatggn tggncctnga agggcnctta      840
antcctgncc ttnagngatc ccccnana ngaaacctg gncnncccaa nnnncnggmn      900
tntagcnnnn ccnccnggcc cannctactt tnnnaannnn nnnnnnnnnn nnnnnnnnnn      960
nnnnnnnnnaa nnnngnncnn nccngnnngn cnnnnnnngg gnaantc      1007

```

<210> 107

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 107

```

gnagnnnnnn nngattgggc cctctagatg catgctcgag cggccgccag tgtgatggat      60
atctgcagaa ttcgccctta gggcccgccc gggcaggtac tttttttttt tttttttttt      120
tttttttttt aattaattag aaagtaggct gggcacggng gctcatgcct ataatcccag      180
cacttgggga ggccgaggat ctctctctg gnggatcact tgagggcagg agttaagaga      240
ccatcctggc caacatgatg aaaccctgtc tctactaaaa atacaaaaag tagctgggcg      300
tggtggcata ctcttacaat cccggctact tgggaggctg aggcaggana atcacttgaa      360
cctaggaagc agaggttgca gtgggccaag atcacaccac tatactctag cctgggcgac      420
agaggtgggg aaaaaagtag gacccctgtc ctatattcag gtttttctca catatatgaa      480
cccatctaaa ttctacgttg ttaaaggtag cttagggttaa ttagtctata cttattttaag      540
accaatatgg ggtganatgg attttttttt aaaaatccta cagtaaggct ttctactttc      600
cttctaataa ggaaaaaggt gacaaaaatt caagtgtcaa tgccccttc ttggggaaga      660
ggtttagaaa aacaacagct caccttntga acttttacca gttccttttt gagttaaccg      720
aagcmttaaa aatcagatgt aaaaaangaa aaaaaaaggc cgggaaattt ttaccaaact      780
nggacattct ttacagatat acaatcttgc taaaacctgg gaaaaccctt cccnggggtg      840
ttaaagggga aacagtcccc cttataatgc ccgggggttna gaaaancccg gatttttnaa      900
aaaggggttt tattgcccaa aactggggga accttngggg ggncccaaaa nnaacctgan      960
cccctgaagg naccgggttn annnntttt tgggaccttg gccgggaacc ccctttnggg      1020
ggna      1024

```

<210> 108

<211> 470

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(470)

<223> n = A,T,C or G

<400> 108

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	ggtagctatt	tttttttttt	120
ttttcgtgn	tttgacattc	cttgaatctg	ttttttattc	cccttcacca	gaacaggcct	180
gggactttcc	aacaccctgc	taaggaagtt	ctgtgtccaa	gtcccaccca	ggctgggttg	240
tccccacctn	ctncagccca	cacagcccag	gcagcatccg	ggccagtggc	ctgcatgaca	300
nagggctctt	gttgtgtaat	gnttgttccc	aagttgcatt	ttctaaccga	atcagtgtgt	360
tttcatgaaa	ctgagtgtta	ctgtggacca	gtaagttnct	ctgttgtctt	cagtggctct	420
cctgtgtggc	tcaagggttc	tctgtgagag	tctggatttt	catttctggg		470

<210> 109

<211> 808

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(808)

<223> n = A,T,C or G

<400> 109

gggcctctag	angcatgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cggccgaggt	acaagtctgc	ctaagagaca	gaagtgagtn	ttataatcta	120
cttggccatt	cctcccagca	gagaagcagc	aggtagatat	ggcatgcaat	gtgctgctg	180
ctgctgctct	tgtggcgaac	actcagatgt	ggaaccatag	aggacacctg	aggagctggg	240
acatgattct	ttagagaaga	gaagagacgg	ggagcacagc	atgagaatgg	ccagtcaacc	300
catttcaaat	tcttttatta	aagtgcctcc	cgaggggctt	tgacaaaaga	tgatggggag	360
agcagaactg	ctgctccttg	acagaactct	gacccctaca	ctttgtttgg	agtgggcttg	420
gggacagtca	caagccatga	aacatgaatc	caaatgggtc	cccagatgag	ccatggtgaa	480
ccaacagatg	caagcaactt	cttaaaactgc	tctattaaac	actgctttat	atgtgtcccc	540
atgatacaga	aaagtgggat	ggggccagcc	attccagaaa	tgaaaatcca	gactctcaca	600
gagaaccctt	gagccacaca	ggaagaccac	tgaagacaac	agaggaacta	ctggtccaca	660
gaaacactca	gtttcatgaa	aacacactga	ttcgggtaga	aaatgcaact	tggaacaaa	720
cattacacaa	caaagaccct	ctgtcatgca	gggcactggc	cgggatgctg	ctgggctgtg	780
tgggctggaa	gangtgggga	caaccac				808

<210> 110

<211> 471

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(471)

<223> n = A,T,C or G

<400> 110

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacygcccgc	60
cagtgtgctg	gaattcgccc	tttcgagcgg	cgcccgggca	aggtacagcg	acgtgatgat	120
gtagaggcgc	ttcccatcca	ggctgagctg	gatcatctga	gggcctncag	ccaccggttt	180
tcccttgacc	actaggggct	ctggctggga	ctttagtctc	tcgtcctcca	gcacttgcac	240
agggcctccc	ttacaatgc	tgcttcagag	gaagagctgt	cctgtgaggc	ggggtctctg	300
tgggtcagag	atgtcatact	gcctcaggtc	cccatgcagc	cagttgctga	agtagaggaa	360
gcggctcgtc	aggagagca	ggatgtcggt	gatcaggcct	ggcatttcgg	gcagcagcca	420
gcccttcact	ttcttggggg	gcacctggat	caccttctcc	actgacctat	t	471

<210> 111

<211> 468

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (468)

<223> n = A,T,C or G

<400> 111

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atcccctagta	acggcccgcca	60
gtgtgctgga	attcgccctt	agcgtgggtcg	cggccgaggt	acttnnttnc	tttntttaca	120
tctgatitita	atgcttcggt	aacttcaaaa	ggaactggta	gagttcanaa	ggtgagctgt	180
tgttttntcta	aacctnttcc	caggaagggg	acattgacac	ttgaattttt	gtcacctttt	240
tcctcattag	aaggaaagta	naaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	300
accccatatt	ggtcttaaat	aagtatagac	taattaacct	aagctacctt	taacaacgta	360
gaatttagat	gggttcatat	atgtgagaaa	agcctgaata	tangacaggg	gtcctacttt	420
tttccccacc	tctgtcgccc	aggctggagt	atagtgggtg	gatcttng		468

<210> 112

<211> 813

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (813)

<223> n = A,T,C or G

<400> 112

attgggcctc	tnnagcatgc	tcgacggcgc	ccatgtgatg	gatatctgca	gaattcgccc	60
tttcgagcgg	ccgcccgggc	aggtaccatg	ctgacttctt	ggtatctttt	anggcctaata	120
tttcccttcc	ttgagattac	tgtagtgtgt	tccagctaata	ttctatttgg	aaacgagttg	180
gaacagctga	aaactaggtg	ttattgaagg	caaagcagcc	tcacgtcagt	tttttatcag	240
ctcatttggg	aagttttntt	ttttttntn	ttaattaatt	agaaagtagg	ctgggcacgg	300
nggctcatgc	ctataatccc	agcacttggg	gaggccgagg	atctcctctc	tggtggatca	360
cttgaggggca	ggagttaaga	gaccatcctg	gccaacatga	tgaaaccctg	tctctactaa	420
aaatacaaaa	agtagctggg	cgtgggtggc	tactcttaca	atcccagcta	cttggggaggc	480
tgaggcagga	gaatcacttg	aaccacaggaa	gcagagggtt	cagtgggcca	agatcacacc	540
actatactcc	agcctgggcg	acagaggtgg	ggaaaaaagt	nagaccctct	tcctatatcc	600
aggctttgct	cacatatatg	aaccacatcta	aattctacgt	tgttaaaggt	agcttaggtt	660
aattagncta	tacttattta	agaccaatat	ggggtganat	ggattttttt	ttaaaaatnc	720
tacagtaagg	ctttctactt	tccttctaata	gaggaaaang	gtgacaaaaa	ttcaagtgtc	780
natgcccctt	cctgggggaag	aggtttataaa	aat			813

<210> 113

<211> 506

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (506)

<223> n = A,T,C or G

<400> 113

nccaaacttg	taccganctc	ggatccctag	taacggcana	cattganctg	atacgcccaag	60
cttggtaccg	agctcggatc	cactagtaac	ggncgccagt	gtgctggaat	tcgcccttcg	120
agcggcgccc	cgggcaggta	cgcggggccc	ctggcgctac	catggcggtt	ggcaagagtc	180
accgggatcc	ctacgcgacc	tcctgtgggc	acctcataga	aaaggctaca	tttgctggag	240
ttcagactga	agattggggc	cagttcatgc	acatctgtga	cataattaac	actaccagg	300
atggggcaaa	agatgcagtg	aaagctttga	agaaaangat	ttncaaaaac	tacaatcata	360
aagaaatcca	acttaccttg	tcacttattg	acatgtgtgt	gcagaactgt	ggtccaagtt	420
tccagtctct	gattgtgaag	aaggaatttg	ttaaagagaa	tttagttaag	ctactgaatc	480
ccagatacaa	cttgccatta	gacatt				506

<210> 114

<211> 813

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(813)

<223> n = A,T,C or G

<400> 114

ggggccntnn	agctgctcga	gcgcccgcca	gtgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cgcccgaggt	acaacttatt	ctaaatattt	tcattttctg	tggtctaaat	120
agaaatatta	agttgcagta	aaaagagaaa	aaaaggctat	ttagcattac	aaagaatcat	180
atttaaaggc	tgcccaatgt	agagtctagt	gacctgttca	ggacacctga	aatataatta	240
aatgacaatt	atcaagggtt	taacaattta	taattctaaa	ccagaggatt	ataaagaagt	300
gcaaattgac	ttttacattc	aacttttagt	aaatgaaggc	actcagtatt	cttcctgaat	360
aatacattca	gtttctcaca	ttttatgctt	tcattctattc	agaattattt	catagtaaaa	420
taatctactc	ttatcacagc	tgtgtgacga	tttctaaatg	taggaaggcc	tgtgaaacat	480
gacactgcag	ttaaattggt	tggcctaagg	actaagtaat	ttttcttctg	ctgaagtttt	540
aagtgagtat	ttgttccaaa	caagttctgt	tgaaatctca	cgctgttggt	aggaatcagt	600
gttatcctgg	aactgttatt	ctatttaatc	ttcattatag	cagaaatgtg	ccaccatggc	660
tttgacatgt	tggtagggtat	tgtcttccag	gcttcaaagc	tgacacagag	ctacgtttta	720
gagagttggc	acctttgatg	tggtagtgag	ctgatcatnc	actttcttct	cagtcaccat	780
cattttgagc	tcctttgtgc	tggtagcat	can			813

<210> 115

<211> 471

<212> DNA

<213> Homo Sapien

<400> 115

accagctatg	acctgattac	gccaagcttg	gtaccgagct	cggatccact	agtaacggcc	60
gccagtgtgc	tggaattcgc	ccttagcgtg	gtcgcggccg	aggtaccatg	attttgtggt	120
caggaaacaa	agaacatgaa	atattacatt	cttcagaatg	tttttcttgt	gccattaaat	180
gaatcaagta	aatgaggcaa	tgaggcacaa	ataaggaatt	tagatttcag	caatattttg	240
atccactgta	gctttcagtt	tctgaaactt	tggaaaggcc	tacatacttt	gtaagaattt	300
ttggcttata	ttgttaataa	tcaacagagc	caagaaaaaca	tttcttagaa	tggtcaaaga	360
caccacctta	gccttccttc	cctgcagcta	taacattatt	tttctaagag	aaaaggcaga	420
gagtcttcac	aaagccatac	cagacttaaa	attaccagag	aacatttttg	t	471

<210> 116

<211> 818

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(818)

<223> n = A,T,C or G

<400> 116

ttncannggg	cccctagagc	atgctcgacg	gccgccatgt	gatggatatt	tgcagaattc	60
gccctttcga	gcgcccgccc	gggcagggtac	tttttttttt	tttttttttt	tttttttggt	120
tgtggtcttg	aactcctggc	ctcaaatgat	cttcctgcct	cagcctccca	aagtcctggg	180
attactggca	tgagtcacca	cacctggctc	attctttttc	ttaatatggc	tctaaatggc	240
tttttatttt	ttttgctttg	gcaatttatt	tctaggaat	ttaaataattc	tttcattata	300
atcaagggaa	tgaaagactt	caggaggtcc	atagtggagt	tcaaaacccat	atggagttca	360
ctattctaca	agattataca	ggcaataata	taagtattct	aagggtgttt	aggtagattt	420
atagatgtta	gattttcaaaa	tgggttaata	agtgtttatg	aattttccaag	gtgtatcact	480
aactttctca	gatgaaatca	tatatagaaa	ctatcaaaat	tttccttggt	ctgctgtcaa	540
gaaatgaata	atatacactg	atataactgt	aactcacatc	taaagggata	gtgcttgaat	600
aagctaattt	acaatgagtt	caaggattta	ttttaaaatt	cttattgncc	ttagacaata	660
attatgccaa	caaatgtgaa	aaatattaaa	tctccttctg	ntaatttttc	cagttttatt	720

accctaaagt cacacaggta atgcaagtca tgaaataaat caaatgagcc cttcctggag 780
agcctacttt atttaccttg ggaaaatgga tgacatnt 818

<210> 117
<211> 467
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (467)
<223> n = A,T,C or G

<400> 117
accactatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60
ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg caggctactac tggttttctc 120
cctggcttca cgtgtctctg tgttccccta tgcctggggtg tctctccagt gctttcaggc 180
ttcatctcct tccaaacctc tcttttctat tttttttttt ttttttgaga tggagtcttg 240
ctcagtcgcc cangctggag tgctaacctc tcttttcatg tggagatgga cagggatggc 300
aggagcactg agtgcctctg acaacacccat tgaagatgat gctgacgatc agctaccctg 360
tggagaaggc aggccaggct gggtagaggg ggagctcctt ggaagtcagg gggctctgtaa 420
ggacagcaag gatctctttg tcccaacctc cagcagcctt tatgggt 467

<210> 118
<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (815)
<223> n = A,T,C or G

<400> 118
gggcctctna agcatgctcg acggccgccg tgtgatggat atctgcagaa ttcgccctta 60
gcgtggctgc ggccgaggta cctgggggtct cagggttgct ctgggcctga tcatccactc 120
agatctgtaa ggaggatttg caggatccat ttagaaagat cctcccttac ttccacaagc 180
atggcctttg gctcttaaat acctgtgctg gggttttgta attatagaaa caacaggaac 240
caaaactcat taatgttgag ctacaaacca gagggaagct tctttctcaa aacagggtc 300
aggcctagaa aaatctagtt ttctgaaatc gctagccagc aacagcactg agatggccat 360
cccagaaaca agccaacac agaagcacc ctaaaaggctg ctggagggtg ggacaaagag 420
atccttgctg tccctacaga cccctgact tccaaggagc tcccctctca cccagcctgg 480
cctgccttct ccacagggtg gctgatcgct agcatcatct tcaatgggtg tgtcaagagc 540
actcagtgtc cctgccatcc ctgtccatct ccacatgaaa ggagagggtg gcactccagc 600
ctgggcgact gagcaagact ccatctcaaa aaaaaaaaaa aaaatagaaa ggagagggtta 660
ggaaggagat gaagcctgaa agcactggga ggacacccca gcatagggga acacagagac 720
acgtgaagcc agggagaaaa ccagtagtac ctgcccggcg gccgntcgaa agggcgaatt 780
ccagcacact ggcggggcgt tactagtgga tccct 815

<210> 119
<211> 811
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (811)
<223> n = A,T,C or G

<400> 119
gggcctctnn agctgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60
cgtggctcgc gccgagggtac tctatttttt gcttgatgta ttgatgggtc tttcattatc 120

tgtgattgac	attctatgag	taggtgcttt	tgctttgctt	ataagtcggt	attatgaagg	180
aggaatggtg	aataagaagg	taatttagaa	aagcctatat	taaatatacc	atgaacattg	240
aatatagcaa	gatcttattc	tctagttggt	atcttagttg	ataaattctg	tatgtgttat	300
gtgttttgtg	atacatatgt	acttaatctg	atcggtatct	aaaagaagga	aaggatggtc	360
aggaaacatt	tatcataaat	gtagccaagg	atatcaatta	gggtagacaa	gaataggaca	420
aaaataggcc	agagctcctg	aggaggtgat	atgggtccct	tgatttgag	aaaatgacag	480
cctatccaag	tgggccagtg	tatgcctccc	agtagcagtg	ggcatgtaaa	ctgcagcgac	540
cttattttta	aaacccaaaa	cctagtatgt	ggacaaagaa	catgacaata	tttggtagct	600
gcccgggagg	cgcctcgaaa	gggcgaattc	cagcacactg	gcggccgtta	ctagtggatc	660
cgagctcggt	ccaagcttgg	cgtaatcatg	gtcatagctg	gttcctgtgt	gaaattggta	720
tcccgtcac	aattnccaca	cacatacgaa	cccgaagca	ttaaagtgt	aaagcctggg	780
gtgcctaata	aagtgaagta	ctcacattaa	a			811

<210> 120

<211> 466

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(466)

<223> n = A,T,C or G

<400> 120

anttgacctg	attacgccaa	gcttggtacc	gagctcggtat	ccactagtaa	cgggccgccag	60
tgtgctggaa	ttcgcccttt	cgagcggccg	cccgggcagg	taccacagtt	ttgctccaca	120
ctccttgacc	acaggggctc	ggacacaaa	ccctgtcacc	aggagagtca	gtcagcacta	180
cttgggaggg	ctaaagggaa	atgttgaaat	aaaattccaa	agtttgaggt	aaaaaaattc	240
aagtgttgat	tttatattct	ttccctttct	gacacagcct	aaagcgtagg	gggaacatgt	300
gtttatctgt	gggagataaa	caagatggag	tcccaaagac	tttaacaaaa	tattttttta	360
aaaatccact	agaatagaaa	atacattatt	tagatatact	ttatgctgag	agtgagtata	420
tatgcttgtc	ctattttaac	ttgtgagaaa	aagtgggtatc	ccttng		466

<210> 121

<211> 812

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(812)

<223> n = A,T,C or G

<400> 121

ttgggcccnt	nnagcatgct	cgagcggccg	ccagtgtgat	ggatatctgc	agaattcgcc	60
cttagcgtgg	tcgcggccga	ggtacaaactc	tccagggcac	aatacgttta	cagctgcctt	120
tccttcacat	actttttctaa	ttcagaacta	ctcacaattc	taagcaaatt	cccattcacg	180
aagtctgtcc	ataatgcgac	cttctctttt	tttaacatat	acatcttaaa	aaacaaatat	240
ataaaaaatt	cttatttttg	tggaaatgctt	tcaatttttc	acatttttaca	tgatcatcac	300
atttattttct	tatattgaaa	ggcatgggtt	ctgttgacat	gtcgtgcaaa	gccaaaaaaa	360
aaaaaaaaaa	aaagggtctg	attgcttttc	aattgggtcta	acactttttcc	ttgtctaggc	420
tttggatttt	aaagtctcatg	acagccccac	caccagtaga	aaccccaagg	cttgcatctt	480
ctggtaatcg	actggaaacg	tcccctgttg	gccatgctaa	gattccttca	acagggtcat	540
cctgcattta	ttctccttct	gccccapccc	cacaatgaaa	caagatagcc	cccatatttc	600
taaatgtatc	aagggtatacc	actttttctc	acaagttaa	ataggacaag	catatatact	660
cactctcagc	ataaagtata	tctaaataat	gtatttttcta	ttctagngga	tttttaaaaa	720
aatatttttg	taaagtcttt	ggggactcca	tcttggttat	cttccacaga	taaaccatgt	780
tccccctacg	ctttaggctg	tggtcagaaa	gg			812

<210> 122

<211> 467

<212> DNA

<213> Homo Sapien

<400> 122

actatgacca	tgattacgcc	aagcttggtta	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcgcccgagg	taccatgctg	acttcttggg	120
atcttttaag	gcctaatttt	cccttccttg	agattactgt	agtgtgttcc	agctaatttc	180
tatttgga	cgagttggaa	cagctgaaaa	ctagggtatta	ttgaaggcaa	agcagcctca	240
cgtcagtttt	ttatcagctc	atctgggaag	tttttttttt	tttttttttt	ttttaattaa	300
ttagaaagta	ggctgggcac	ggtggctcat	gcctataatc	ccagcacttg	gggaggccga	360
ggatctcctc	tctggtggat	cacttgaggg	caggagttta	gagaccatcc	tggccaacat	420
gatgaaaccc	tgtctctact	aaaaatacaa	aaagtagctg	ggcgtgg		467

<210> 123

<211> 864

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(864)

<223> n = A,T,C or G

<400> 123

gggcctctng	agcatgctcg	agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gcccgggcag	gtactttttt	tttttttttt	tcttttttta	catctgattt	120
taatgcttcg	ttaacttcaa	aaggaactgg	tagagttcag	aaggtgagct	gttggttttc	180
taaacctctt	cccaggaagg	ggacattgac	acttgaattt	ttgtcacctt	tttcctcatt	240
agaaggaaag	tagaaagcct	tactgtagg	tttttaaaaa	aaaaatccat	ctcaccccat	300
attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	gtagaattta	360
gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggtcctac	tttttcccc	420
acctctgtcg	cccaggctag	agtatagtgg	tgtgatcttg	gccactgca	acctctgctt	480
cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	taagagtatg	540
ccaccacgcc	cagctacttt	ttgnattttt	agtagagaca	gggtttcatc	atgttggcc	600
ggatggntct	ttaactcctg	ccctcaagtg	gatccaccag	agaaggagat	cccttggnt	660
tccccaaagt	cctggggatt	attaggcatt	gaagcccacc	cgtggcccca	agccctacnt	720
tttcttaaat	ttaattttaa	aaaaaanaaa	nnnnnnnnnn	nnaaaaaaaa	ccttttcccc	780
aaattgganc	ctgggtttta	aaaaacctgg	acccttnaan	gggcntggnt	tttggccctt	840
tnaataaat	tnccctaag	gnnt				864

<210> 124

<211> 467

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(467)

<223> n = A,T,C or G

<400> 124

antatgacct	gattacgcca	agcttggtac	cgagctcgg	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtacatgcac	acacacacac	120
acacacacac	acgtgtctac	tgggtccctt	ttggattttt	tagttcaatc	agaaatcacc	180
aaacagatca	ataaagaggc	aatgttaa	gaccgggaaa	ttggtaatgt	gacatcacaa	240
cactgccttt	aaggtgccat	atctaaatcc	aggtagcact	gctgctagca	gaatctgttg	300
ttttaggaga	caagggtggg	ctgggtatgc	tggctcgtgc	ctataattcc	agcactttga	360
gagggcaagg	caggagaacc	acattaggct	aggagtttan	gaccagcctg	ggcaacatag	420
tgagatccca	tctctacaaa	aataaaaaaa	ttagctttcc	agctgct		467

<210> 125

<211> 833

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(833)

<223> n = A,T,C or G

<400> 125

gnnnnnnnnnn	ngnnttnnnn	ntttaataga	tgagcgtacg	gngcctgtaa	agcatgctcg	60
agcgcccgcc	atgtgatgga	tatctgcaga	attcgccctt	agcgtggctg	cgcccgaggt	120
acctgatatc	gtttaacttt	cctctttatc	tttcttagag	atacttcaca	tgtgggacag	180
attatatttt	ggaaagatgt	ccacaacaat	attgcccatc	ccacattgct	catcttacaa	240
tgtgatctca	agactcctcc	cactgagtgg	gtgagaaggg	acttatacca	ctttcatttg	300
aatctaggca	gatctgtgtg	acagccttga	ccaatagagt	atgggttaaag	tgatgcccc	360
aggcatgggtg	gcccatacct	ggaatcctgg	tttttcgggg	aggcccaggt	gggggtagag	420
gtgaggggga	tgattgtttg	aacacacag	tttgagacta	ccctgagcaa	cacaatgaga	480
ccctattttt	ttttaatgat	ttctgaagca	gaatcacaaa	tagccgtgcg	tttttttctt	540
gcgcttttag	gatacttact	tttaaaaccc	agtcaccata	ttgttaggaa	gcccacacag	600
cacacataga	gagacatacg	gagaagccaa	ccatagaggt	tcctgttgac	agctcantcg	660
aggtcttaac	caacagtcac	acttagctgc	cagccatatt	agtgaagggc	ttncagatga	720
ttctaacgcc	cagcagttgg	gtccccccag	cctgtaagcc	ttcccagctg	aggcctnaca	780
atgatggagc	anagaaaagt	gtccctgtcc	aaattctgac	ccatgataaa	atg	833

<210> 126

<211> 788

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(788)

<223> n = A,T,C or G

<400> 126

nnnnnnntnn	nnacanttga	ctgataccca	acttggtacc	gactcggatc	cactagtaac	60
ggccgccaagt	gtgctggaat	tgcgcccttag	cgtggctcgc	gccgagggtac	gcggggggatc	120
agagagaagc	gaggttctcg	ttctgagggg	caggctcgag	atcggtgaa	gagagcgggc	180
ccaggctctg	tgaggaggca	agggagggtg	gaaccttgct	ctcagagggt	gactcaagtc	240
aacacaggga	acccctcttt	tctacagaca	cagtgggtcg	caggatctga	caagagtcca	300
ggttctcagg	ggacagggag	agcaagaggt	caagagctgt	gggacaccac	agagcagcac	360
tgaaggagaa	gacctgcctg	tgggtcccca	tcgcccaagt	cctgccccaca	ctccccacctg	420
ctaccctgat	cagagtcac	atgcctcgag	ctccaaagcg	tcagcgctgc	atgcctgaag	480
aagatcttca	atcccaaagt	gagacacagg	gcctcgaggg	tgcacaggct	cccctggctg	540
tggaggagga	tgcttcatca	tccactttca	ccagctcctc	ttttccatcc	tcttttccct	600
ctccttctnt	ttctnctnct	nctnctgcat	ctntaatacc	aagcacccca	naggagggtt	660
ctgctgatga	tgagacaccc	aaatncttcc	anagtgcctna	anatagcctg	ntncttcccc	720
cttngnctnt	gctttccctt	ncnttanatt	naatnctgat	taaggggttc	cannanncca	780
aaaggaat						788

<210> 127

<211> 766

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(766)

<223> n = A,T,C or G

<400> 127

gggcctctna	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tactccaggt	agttttcctg	cacccaatct	tgggtgagca	120

gcttcctggg	ctccccataa	atgagggtgct	ccatcccatc	atacagcccc	atcatattca	180
gtgcttccca	gatgacctcc	tcaggggtgc	agtagccctc	tatgaagatt	atgcttagga	240
taagtatgag	aatgccagtc	ttgggcatgc	tctggacatc	actcagcatc	ccatcatagg	300
tgaggcccgag	ggagggtgaca	aggacaaagg	agtggccagt	gggatccact	tcctttacat	360
caatgccaaa	gaccagcagc	atgcactcgg	aggcttcact	aaacaacaaa	gggaagtggg	420
cttcataatt	ttttatgaca	ctctccagta	tttctgcctt	tgtgatcggc	tccttcattt	480
gataacttgaa	gagcagaaac	tgcaccaa	cagtcacctt	ttcatctatc	tcacttctgg	540
gtaaagactc	actgtctggc	aggacctgta	gggtgcttgg	actctcctcc	ttttggctgc	600
tgagagccctc	atcagattga	tctaattggaa	gggaagcaac	gaccganggg	gaggagcagg	660
ctatctgagc	actctgggga	ggatttggtg	tctcatcatc	agcagaaacc	tnctctgggg	720
tgcttgggta	ttagangatg	gcaggaagaa	gaagangaag	aggaag		766

<210> 128

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 128

gnnnnntnnn	nacactantt	tnngaccogn	canctggtag	cgactcggac	cactagtaac	60
ggccgccagt	gtgctggaat	tcgcccttcc	gagcggcccg	cpcgggcagg	tactcctcat	120
cctgcgtttg	gtctccaggt	gtcgcccttc	tgccgtgttc	ctaataattt	gattcctgtc	180
ttgaaaaaag	cacctgctgc	acagtaagcc	cagggatgtg	gcagctgcag	cgggcttggc	240
tttgtgagga	accgggtgtg	tccacgttgg	gggaacatca	tacttgatac	acacgttttt	300
atttgcacaa	agaaaatgct	atttttggag	ccagaatttt	catgtctgat	ttatggtgat	360
tttcttaaga	accagaactg	ctggcagaaa	gggggcaccc	acacgcttag	atagccgatg	420
tcttattaga	gggcagtttg	tggttcctga	tttggaatt	aatattctcc	aaacattcca	480
gtccaatgaa	agttttatcc	gctttcccat	gtaaaaattc	ttcccatgag	agtgacttga	540
tcctcacaat	ccggttgaag	tcgtgtgtga	gtcctacagt	attaggttca	gcattgccgt	600
ctncaagtgc	tctttgtagg	gaaacagttt	ctggtcatga	caagcttcca	cttccatctg	660
atcctggcct	ggcctggaaa	cagagcacat	gtgtttgagg	atggcngtgt	ttggggacag	720
gacatgancg	tattgtgtgg	ggctgctagg	acangcgtgg	tgtggtgggg	gantgtccn	779

<210> 129

<211> 774

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(774)

<223> n = A,T,C or G

<400> 129

ttnnnantgg	gcccntngag	catgctcgac	ggccgccatg	tgatggatat	ctgcagaatt	60
cgcccttagc	gtggtcgcg	cagaggtacc	tgggtgggac	tgggaaactg	tgaacaagt	120
agactgactt	ggacactccc	ccaccacacc	acgcctgtcc	tagcagcccc	acacaatag	180
ctcatgtcct	gtccccaaac	accgccatcc	tcaaacacat	gtgctctgtt	tccaggccag	240
gccaggatca	gatgggaagt	ggaagcttgt	catgaccaga	aactgtttcc	ctacaaagag	300
cacttgagga	cggcaatgct	gaaccttaata	ctgtaggact	cacacacgac	ttcaacggga	360
ttgtgaggat	caagtcactc	tcattgggaag	aattttttaca	tgggaaagcg	gataaaactt	420
tcattggact	ggaatgtttg	gagaatatta	atttccaaat	caggaaccac	aaactgccct	480
ctaataagac	atcggtctatc	taagcgtgtg	ggtgccccct	ttctgccagc	agttctgggt	540
cttaagaaaa	tcaccataaa	tcagacatga	aaattctggc	tccaaaaata	gcattttctt	600
tgtgcaataa	aaaacgtgtg	tatcaagtat	gatgttcccc	caacgtggac	acaccccggt	660
tcctnacaaa	gccaagcccg	ctgcagctgc	cacattcctg	ggcttactgt	gcacangtgc	720
tttttttaag	acaggatcaa	atnttaggac	ccngnanaan	gcaacacctg	gaga	774

<210> 130
 <211> 803
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (803)
 <223> n = A,T,C or G

<400> 130
 ggnnnnntttnn anacgnatcn gacctganta cgccaacttg gtaccgagct cggatccact 60
 agtaacggcc cgccagtgtg ctggaattcg cccttagcgt ggtcgcggcc cgaggtacct 120
 tggaagttat gtcattaata taggctgggt cgtcaaataa agcaaacct tgcaatatca 180
 gctagattta cactccggga cgttgccccaa aggtaggagaa aaagcagagg gaaatatttc 240
 agtcatcatt tccaaagtca ttatcaaaat ctgtgaggaa gtttaattctt ccaaagagtc 300
 aatgtcagac atcaggcctc tgttgccctgc ttctctcgag gcactagatt aggagtcttc 360
 aataagagac ttaacatgag gtatatggaa gatgaggcac cgagataagt tcatcattag 420
 gtgtgagcac tgctaccctc tgctggcaag ttctccttaa gggcctgaag cacaggtgtc 480
 caaagaaaag cgtaaagtc atcttaatag aatctatgtg gtatatgatg tggtcagccc 540
 ccggtctgtg atcagcaaga acctacagca cagattatgc cctgccact tcaatgaata 600
 cctactctcc tncattctcc atcacttttt ttgctatcaa gactccggac cttgcccatg 660
 gagaagttta gagaggaact cttgtggaga gctgggttat tttctgccct gtgcgacgag 720
 tttcagcttg gccaaagaaa ggagtcgaag ttattaaaaa gcatcacaat ggtagatctt 780
 ccaggtcttg ntttttttgt ttt 803

<210> 131
 <211> 818
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (818)
 <223> n = A,T,C or G

<400> 131
 antgggcctc tnnagcatgc tgcagggccg ccatgtgatg gatatctgca gaattcgccc 60
 ttngcccgtc ttccagncgg gaaacctgtc ntgccagntg cattaatgaa tcngccaacg 120
 cgcgnggaga ggcggmttgc gtattgggag ctcttccgct tctcgtctca ctgactcgtc 180
 gcgctcggcc gttcngctgc ggcgagcggg atcagctcac tcaaaggcgg taatacngtt 240
 atccacagat cagggggatan cggcaggaaa gaacatgtga ncaaaaggcc agcaaaaggc 300
 caggaaccga aaaaaggccg ctttgttggc gttnnaccat aggtcnncc ccttgacna 360
 gcttcacaaa aatctacgct cagntcccag gtgcnaaatc ccganaggac tntaangatt 420
 cnnngnnttt cccctgaan nctnccant gcgctctcct gtnccaacct tgccgtttac 480
 cggataacctg nccgcctnna tnccttcgng aagentggct ttnaatngg ctcacttttt 540
 gggnatctaa aancggnta ggcngnncgt tnnaaantng nntttttgcn caaacccct 600
 gtttaaaactn acccatgngc attatcccg aaacttttgg tnttngaate caaccnggna 660
 aanacacnan ttaatnngcc nttggcntga aaccacttg ggtnaaccat ggattttggc 720
 ncnaccnagg gtnnttttnn nggcnngtnc ntacccgag ttctttnaaa acnggggtggg 780
 cncttanacc tatcnggnnt tcccctttan aaaaaaat 818

<210> 132
 <211> 777
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (777)
 <223> n = A,T,C or G

<400> 132

acnntatgac	ntgantaccc	aacttggtac	cgactcggac	cactagtaac	ggccgccagt	60
gtgctggaat	tcgcccttcg	gcccccccg	gcaggtacct	ggaaaataac	ttctttcttt	120
tcctctagat	tttcaagaa	gcaaataaat	caagaataga	aacctatata	taggaggttg	180
ggcctcctgc	aaagaatgaa	gcactttttg	ttaaatacag	gagaggctac	ttggctgcac	240
taatattgtc	tttttggaat	cttatagagt	gtcaccaagt	tgaactttgg	aatggcttga	300
atcatccctg	gagcatctgt	gccgggcagt	caggagttag	tgcaccgcct	cccaccagc	360
cccatggggc	ctcacacct	cttcattcct	ttccccatga	ggcaggcaaa	cacggtcatg	420
accattttgg	ggttcacttc	aaccaggtct	tctggcaggg	catacactct	tgctccaatt	480
tttcgggcca	tagagatggc	atattttgca	ttgttgagtt	tctcatcatc	attcagattt	540
tctgtcttca	gaaggtcata	gttaatggaa	cctggttgga	tggcatcgat	gangtccaga	600
acaggcgagc	ttgtacctcg	gccgcgacca	cgctaagggc	gaattctgca	gatatncatc	660
acactggcgg	gccgntcgag	catgcatcta	ganggcccaa	ttcgccctat	agtgaagtcg	720
attacaattc	actgggccgt	cgttttacaa	cgctcgtgact	gggaaaaccc	tgcgttn	777

<210> 133

<211> 775

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(775)

<223> n = A,T,C or G

<400> 133

ntgggcctct	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgcctt	60
tagcgtggtc	gcggccgagg	tacaagtctg	cctgttctgg	acctcatcga	tgccatccaa	120
ccaggttcca	ttactatga	ccttctgaag	acagaaaatc	tgaatgatga	tgagaaactc	180
aacaatgcaa	aatatgccat	ctctatggcc	cgaaaaattg	gagcaagagt	gtatgccctg	240
ccagaagacc	tggttgaagt	gaaccccaaa	atgggtcatga	ccgtgtttgc	ctgcctcatg	300
gggaaaggaa	tgaagagggg	gtgaggccca	atggggctgg	gtgggaggcg	gtgcactcac	360
tcctgactgc	ccggcacaga	tgctccaggg	atgattcaag	ccattccaaa	gttcaacttg	420
gtgacactct	ataagattcc	aaaaagcaca	tattagtga	gccaagtagc	ctctcctgta	480
tttaacaaaa	agtgttcat	tctttgcagg	aggcccaacc	tnctatatat	aggtttctat	540
tcttgattta	tttgcttctt	cgaaaatcta	gaggaaaaga	aagaagttat	tttccaggta	600
cctgcccggg	cggccgaang	gcgaattcca	gcacactggc	ggccgttact	agtggatccg	660
agctcggtag	caagcttggc	gtaatcatgg	tcatagctgt	ttcctgtgtg	aaattgntat	720
ccggtcacia	ttccacaca	tacgaacccg	gaagcataaa	gtgtaaagcc	tgggg	775

<210> 134

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(772)

<223> n = A,T,C or G

<400> 134

acnnttgacc	tgataccag	ctgggtccgac	tccgacccta	gtaacggccg	ccatgtgctg	60
gaattcgccc	ttgagcggcc	gccggggcag	gtctataagt	ctttaaattg	ggctcgtgtt	120
ttagcaggta	agactaattt	atctcttctc	cagtgaattg	atgctgggtg	gattcgattt	180
cacatcacaa	cttatattga	tagggatttc	cttcccaaga	gtaataaatt	gtttgggttg	240
atataaactt	gggggcatat	tcaatatcaa	ggtacttttt	tttttttttt	aagttttagt	300
tcagaataac	attaattttg	agagattgag	gtaaagaacc	ttactaatg	ctaaggagtt	360
tattttgatt	aacataggtt	attctgacca	ccacctcttc	cttccttaat	ctccttagaa	420
tctgacagtc	tcaaagctgt	cacacaaatt	agactaattt	tgacactttg	aaatgaaaac	480
ttcaagggaag	aagtagccac	ggacagttat	gtttataatc	agtaggtggc	actctttcct	540
caggtagccc	cccattttca	catgatgtgt	ttgaaggtta	aatgccccaa	aagtgtgag	600
tcagctataa	aactaagtc	ctgaattcca	tggccctttt	aaatatgtaa	tcattcaaga	660

ttgaaaaaaa aaattaagca ttttttgntt gnttgcttgg ttggttttga gacngagttt 720
cactcttgnt ggccaggctg gagtgaatg gcgccatctn actcactgna ag 772

<210> 135

<211> 784

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (784)

<223> n = A,T,C or G

<400> 135

ntgggectct	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtgggc	gcggcccgag	gtacttcttt	tgaataattc	agtattttta	aaatgcaagc	120
caggcacagt	ggctcacgcc	tgtaatccag	cactttggaa	ggccgagggtg	gggggatcac	180
gaggtcagga	gttcaagacc	agcctggcca	acatggtgaa	acctcatctc	tactaaaaat	240
acaaaaacta	gctgggcatg	gtggcgggca	cctgtaaccc	cagctacttg	gagggctgaa	300
ggagaattgc	ttgaatccgg	gaggcagagg	ttgcagtgg	ctgagatggc	gccattgcac	360
tccagcctgg	ccaacaagag	tgaaactccg	tctcaaaaac	aaacaagcaa	acaaacaaaa	420
aatgcttaat	tttttttttc	aatcttgaat	gattacatat	ttaaaagggc	catggaattc	480
agggacttag	ttttatagct	gactcagcac	ttttggtggc	atttaacctt	caaacacatc	540
atgtgaaaa	gggggggtac	ctgaggaaa	agtgccacct	actgattata	aacataactg	600
tccgtggcta	cttcttcctt	gaagttttca	tttcaaagt	tcaaaattag	tctaatttgt	660
gtgacagctt	tgagactgtc	agattctaag	gagattaaag	gaanggaaga	gggtggtggc	720
agaataacct	atgttaatca	aaaataaact	tccttagcat	taagttaang	gtctttacct	780
caan						784

<210> 136

<211> 768

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (768)

<223> n = A,T,C or G

<400> 136

acnttgantg	naccacttg	tccgactcgg	atccctagta	acggcgcagt	gtgctggaat	60
tcgccctttg	agcggccgcc	gggcagggtac	tttttttttt	cttttttttac	atctgatttt	120
aatgcttcgt	taacttcaaa	aggggaactgg	gtagagttca	gaagggtgagc	tgttggtttt	180
ctaaacctct	tcccaggaag	gagacattga	cacttgaatt	tttgccacct	ttttcctcat	240
tagaaggaaa	gtagaaagcc	ttactgtagg	atttttaaaa	aaaaatccat	ctcaccat	300
attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	gtagaattta	360
gatgggttca	tatatgtgag	aaaaacctga	atataggaca	gggggtcctac	ttttttcccc	420
acctctgccg	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	acctctgctt	480
cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	taagagtatg	540
ccaccacgcc	cagctacttt	ttgtattttt	agtagagaca	gggtttcatc	atgttggtcca	600
ggatgggtctc	ttaactcctg	ccctcaagt	atccaccaga	gaggagatcc	tcggccttcc	660
caagtgtctg	gattataggc	atgagccacc	gtaccacagc	tactttctaa	ttaattaaaa	720
aaaaannnnn	nnnnaaaaaa	acttnccaaa	tgactgataa	aaaactgc		768

<210> 137

<211> 777

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (777)

<223> n = A,T,C or G

<400> 137

ttggggcctct	ngagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtgggc	gcgcccgagg	taccatgctg	acttcttggg	atcttttaag	gcctaatttt	120
cccttccttg	agattactgt	agtgtgttcc	agctaatttc	tatttggaag	cgagttggaa	180
cagctgaaaa	ctaggtatta	ttgaaggcaa	agtagcctca	cgtagctttt	ttatcagctc	240
atgtgggaag	tttttttttt	tttttttttt	ttttttaatt	aattagaaag	taggctgggt	300
acgggtggctc	atgcctataa	tcccagcact	tggggaggcc	gaggatctcc	tctctggtgg	360
atcacttgag	ggcaggagtt	aagagaccat	cctggccaac	atgatgaaac	cctgtctcta	420
ctaaaaatac	aaaaagtagc	tgggcgtggt	ggcatactct	tacaatccca	gctacttggg	480
aggctgaggc	aggagaatca	cttgaacctt	ggaagcagag	gttgtagtgg	gccaagatca	540
caccactata	ctctagcctg	ggcgccagag	gtggggaaaa	aagtaggacc	cctgtcctat	600
attcaggttt	ttctcacata	tatgaaccca	tctaaattct	acgttggtta	aggtagctta	660
ngttaattag	tctatactta	tttaagacca	atatgggggtg	agatggattt	ttttttaaaa	720
atcctacant	aaggctttct	actttccttc	taatgaggaa	aaaagtggca	aaaatttt	777

<210> 138

<211> 950

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (950)

<223> n = A,T,C or G

<400> 138

nnnnnnnnnn	nnnnnnnnnn	ntnnnnnnnn	nnnnnaaanc	cnnnnnttna	nnngnnaaac	60
cccattggna	aanttaaccn	cccccaaaa	gccctttngg	ggtttaaccc	ccgaaagcct	120
tccgggggna	atccccaaat	ttaagttaaa	acnggggccc	cgggcccaag	ttgggtggcc	180
tttgggggaa	aatttcgcgc	ccctttccga	agccgggccc	ggccccgggg	gccaagggta	240
ccatgggaat	ggttaccttt	tggcaagaac	tggtaaaacc	ctggaaattt	tggatatttt	300
gctttggaca	ttggccctaa	attaattaag	tttcaagggtg	gtcaggcttt	acccactttt	360
tggcttgga	acatgcagaa	gagacagtgc	ccttttttagt	gtatcatatc	aggaatcatc	420
tcacattggg	ttgtgccatt	actggtgcag	tgactttcag	ccaattgggt	aagggtggagt	480
tggccatatg	tctccactgc	aaaattgctg	atttttcctt	tgtaatattt	aagtgtgtgt	540
gaagattcct	tgagatgagg	tatatatctc	actcttcctc	aaactataag	tttttttaag	600
taaaagaaaa	tttattatga	aactaaagga	ataaaagaat	gaccactcca	taggcagaga	660
aacgtcactt	taagggtttg	acgtcaattg	atttttgtcc	aaatcaataa	ttactgcaat	720
gattgaaaaa	tgattattac	taagtttgtt	ttcattgtct	caagggtctgc	tgaactctgg	780
atccaggctg	tgtcaacagg	gtagtgtggt	gcctcctgta	cctcgccgcg	gaccacgcta	840
agggcggaat	ctgcagatat	ccatcacact	ggcgcccggt	cgagcatgca	tctagagggc	900
ccaattcgcc	tatagttagt	cgtattacaa	ttcactggcc	cgcgttttag		950

<210> 139

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (779)

<223> n = A,T,C or G

<400> 139

ttggggccnt	agagctgctc	gagcggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtgggc	gcgcccgagg	tacaggaggc	accacactac	cctgttgaca	cagcctggat	120
ccagagttca	gcagaccttg	agacaatgaa	aacaaactta	gtaataatca	tttttcaatc	180
attgcagtaa	ttattgattt	ggacaaaaat	caattgacgt	caaaacctta	aagtgcagtt	240
tctctgccta	tggagtgggc	attcttttat	tccttttagt	tcataataaa	ttttctttta	300
cttaaaaaaa	cttatagttt	gatgaagagt	gagatatata	cctcatctca	aagaatcttc	360

acacacactt	attaattaca	aaaggaaaat	cagcaatttt	gcagtggaga	catatggcca	420
actccacctt	acccaagtgg	ctgaaagtca	ctgcaccagt	aatggcaca	accaatgtga	480
gatgattcct	gatatgatac	actaaaaagg	gcactgtctc	ttctgcatgt	tgacagacaaa	540
aagtgggtaa	gctgacactg	aaactaataa	ttaggcaatg	tcaagcaa	acaaattcag	600
gttgacagtc	tgcaaagtaa	catccatgta	cctgcccggg	cngnccgctc	gaagggcgaa	660
ttccagcaca	ctggcgccg	ttactagtgg	atccgagctc	ggtaccaagc	ttggcgta	720
catgggcata	gctggttctt	gtgtgaaatt	ggtatncgct	cacaattnc	acaacatag	779

<210> 140

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (779)

<223> n = A,T,C or G

<400> 140

gccntagag	catgctcgac	ggccgccagt	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggctcgc	gccgaggtag	caggtgggct	gacgcacatc	ccctaaacat	tctggatctc	120
ttactcatcg	tgaaaggcag	acgctctaag	tctaaagtct	agggtaggag	tttccattct	180
ttggaaaacc	aaagatgggt	actcttctta	atgaaactga	gaagaaggta	tctacagaaa	240
acactgaatt	taaacaaatt	atgacctgtg	ttgttgaagc	catcaaggac	ccaagatata	300
tcaaagaaca	acatctctgt	attggcctac	aggttcagag	tgttttgagg	tctgtttaag	360
caactaatag	attttaggcc	agcatccagt	cagaagagat	agttcacaga	ctcagagttg	420
gaaacagatt	aaaaaaaaaa	agatgtcaac	atagaaaatg	atgatagagt	ttagttaaaa	480
aaattcacac	ataaaattac	agttaaaaaa	attcacacat	aaaatagagt	gtttgcatag	540
caagacatta	ttgcccttca	gcctggcgaga	aaaacataaa	ctcagggtga	tattttataa	600
taaacattgt	attgaatgct	aagaatgata	cactgttgaa	catctcctga	atggtttgcc	660
ttcttgtaaa	tcataccaat	tgtttagaca	attgaaattc	caagctcttt	ctcttctccc	720
atataaaaac	caacagaaaac	anggaggctg	ttagtagcaa	gctcctcatg	ggaaanggt	779

<210> 141

<211> 986

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (986)

<223> n = A,T,C or G

<400> 141

aanccnnnnn	ntttatttgg	gnaaacccaa	ttgggnaaaa	ttnaaccn	cccccnaaa	60
ngcccttttn	gggggttnaa	ccccccgaa	aaccctttcc	ggggggaaat	tccccaacct	120
ttaaagnttt	aaaaaccgg	gggcccggg	cccccaaagt	ttgggttggc	cnttggggga	180
aaaatttttt	ccgggcccc	cnttttaaag	cccggttggg	gtttccggcc	ngggggcccc	240
gggaaagggg	tnaccctttt	ttttttaact	tttttnntt	tccttttttn	nttccttttt	300
tttctttttt	tttttctttg	gtntnnnttt	ttttttcaat	tttttggttt	ttggtttttg	360
gttatggttt	ttttagaaca	ggggtccac	tctgtcacc	aggctggagt	gcagtgggtgc	420
aatcacagg	cactgaaacc	tcccacctag	ctgggactag	agggtgcaggc	caccacacca	480
gctaatttat	gtaatttttg	tagagacgag	tttcaccacg	ttacctaggc	ttgtcttgaa	540
cacctgggct	caagcaatct	tccagcccca	gcctcccaaa	gtgctgggat	tacagggtata	600
aaccacaatg	cccccgtttt	tactctttac	tgcatecttc	ccatcagtat	taattcctca	660
gaaatttagt	acccctgtgc	ttcattcagt	atcagtaacc	ctgcaatgat	ttttacaaat	720
atctttttct	agtgggtttt	ttacttagag	gaaagaactt	tgtaatagct	cttaatgttt	780
atatataaga	gaagacagaa	tggaaaatgt	tttttgaagt	caaatattgc	atgatgtaaa	840
gaaaaaactt	taaaacttaa	tgagtanggt	tgtcctgaat	tacactggta	actctctact	900
tctttattaa	agaagttata	gtaagatgcc	tttggntacc	tgatttcagt	gtacctgccc	960
gggcccggccg	ntcaaaagg	cgaant				986

<210> 142
 <211> 780
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(780)
 <223> n = A,T,C or G

<400> 142
 gggcccgctan agcagtctcg agcggccgcc atgtgatgga tatctgcaga attcgccctt 60
 tcgagcggcc gcccgggcag gtacactgaa atcaggtaac aaaggcatct tactataact 120
 tctttaataa agaagtagag agttaccagt gtaattcagg acaacctact catttaagtt 180
 taaagttttt tctttacatc atgcaatatt tgacttcaaa aaacattttc cattctgtct 240
 tctcttatat ataaacatta agagctatta caaagttctt tcctctaagt aaaaaaccca 300
 ctagaaaaag atatttgtaa aaatcattgc agggttactg atactgaatg aagcacaggg 360
 gtactaaatt tctgaggaat taatactgat gggaaggatg cagtaaagag taaaaacggg 420
 ggcattgtgg tttataacctg taatcccagc actttgggag gctggggctg gaagattgct 480
 tgagcccagg tgttcaagac aagcctaggt aacgtggtga aactcgtctc tacaaaaatt 540
 cataaattag ctggtgtggt ggcctgcacc tctagtccca gctaggtggg aggtttcagt 600
 gacctgtgat tgcaccactg cactccagcc tgggtgacag agtgggaccc tgtctaaaaa 660
 aaacataaca naacanaacn naatgaaaaa aaaaaacaaga aaaaagaata gaaaaagaaa 720
 aaagtnaaaa gtnccctcggg cgcgaccacg ctaaggggcga attccagcac actgcggccn 780

<210> 143
 <211> 794
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(794)
 <223> n = A,T,C or G

<400> 143
 nnnnnnnnnn nnnacnnttg actgataccc aacttggtac cgactcggac cactagtaac 60
 ggccgccagt gtgctggaat tcgcccttcc gagcggccgc ccgggcaggt acagaaagaa 120
 gagccaggat attctttgtt ttcctaagcg tagctgtgag caacattatc tctcctactg 180
 gcttctttga ggtatgagag tcatcattac atctgtgtgc tttgtcaagt tatatgtcac 240
 aattccacct gtgggtagag aacaagcaca agagtcacat caactgtgtg ctgggccagg 300
 gttatgtcac aatcttccct gagagcatgc accaggcaga agagtcacat cacagggttc 360
 tcaaccagag atgtttacaat cctctcctga aagcaggaca caggaaaaag agtaagatca 420
 cctgcagtct gggctcagat atatgtcaca agactcactg tgggcaaagt ccagaaggac 480
 agacagaaca gctggttgc tgaaccagca atatgtcaca atcttctcta tgggcagaat 540
 gcaggcagaa gttagagggt tcatcttcca ggtgatggat taaaaaata catcccaagg 600
 ctctctgtgg gaaagggtc angcagaaac tttccaaccc ctangtgttt gcttcagtga 660
 tatgtcacia ttaaccaaa tatgcaggtt tcaagcaagt gagtnaagtc atatcaccta 720
 nggtgcttgg tccanaaatc tgncaaatc tttttttttt ttttggcatg cccagcngaa 780
 ttgaaaagtc ncan 794

<210> 144
 <211> 782
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(782)
 <223> n = A,T,C or G

<400> 144

cnannngggcc	cntagagcat	gctcgacggc	cgccagtgtg	atggatatct	gcagaattcg	60
cccttagcgt	ggcgcgggcc	gaggtacaat	cttgggtcac	tgcaacctcc	acctcccggg	120
ttcaagcaat	tctcctggct	cagcctcctg	agtgtgtgga	ctacaggcat	gcaccaccac	180
tcccaccta	ttttgtat	ttgatagaga	cggggcttct	ccatgttgg	caggctgttc	240
tcaaactcct	gacctcaggt	gatttgactg	tcttagcctc	ccacagtgt	gagcttatag	300
gcaggtgcc	cgacacctgg	ctggaatcat	ttatttcaac	atatctctgg	gtccaacaac	360
atggtgatgc	aactttcctg	catgggccc	cccacagaaa	tactctaata	catcttttca	420
ttcattatct	tggtgatgtg	acttttctat	tctgcttggg	cactgccaaa	aaaaaaaaaa	480
aagatttgtga	cagatttctg	gaccaagcac	ctaggtgata	tgactttact	cacttgccctg	540
aaacctgcat	attttgggta	ttgtgacata	tcactgaagc	aaacacctag	gggttggaaa	600
gtttctgcct	gagcccttcc	acagagagcc	ttgggatgta	ttttttta	ccatcacctg	660
ggagatgaaa	ccctctactt	ttgcctgcat	tctgcccata	gagaagattg	tgacatattg	720
ctgggtcaag	caaccagct	ggtctgctgt	ccttntggac	tttgccaca	agtgagttt	780
gn						782

<210> 145

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 145

annnttgacc	tgataccag	cttgggtaccg	agctcggatc	cactagtaac	ggccgccagt	60
gtgctggaat	tcgcccttcc	gagcgccgc	ccgggcaggt	acttttttta	cttttttttt	120
cttttttttt	ttggacatct	gttttcactc	ttaggctttt	aaacaatagt	tattgctttt	180
atccctctca	gattctaata	actgagagcg	atggggctat	attgaatctc	tgtatgcact	240
gagaactgag	ctatgaagag	gatcttatta	aactgctgg	ctgactttat	ggattgacac	300
tgttcccttc	ttttattgtg	aaaaaaaaaa	aaaaccctga	aagtcttggg	aacccctaa	360
agtcttttgg	gaatcctcaa	aaagcatggg	aagttaagta	tttagctaca	taaatgttgt	420
aagatcatat	cttatgtata	gaagtaataa	gaccatttgg	aattactgga	ctaattgaat	480
agttaagggt	tctattcggg	acaataaaat	gtattttgaa	agtgtgtgta	actattgatg	540
ctgacagtgt	ttcactccta	tgagtgaccc	aaacatatta	taaatatgtg	gtaaagggaa	600
tgagacctgt	gggggtgagc	agaatgttgg	actttttttt	tnnnnnnnnn	nttttttngc	660
tttctattng	atngataacg	atttcnggat	tnccctttaa	nnccnggang	gtttggaaac	720
tttggaactgg	attctggttc	cengaaacag	gttcactggg	nnccggggga	cacttttaan	780

<210> 146

<211> 778

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(778)

<223> n = A,T,C or G

<400> 146

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agcatgtgtg	ttttgttct	cagattcatt	gtcactcacg	ttgcataaag	tcctcagttg	180
tttttaagta	attgttttac	tatggatata	ttaaaccatac	agaataaaaa	aggggaataaa	240
catacaattt	ggcaaacc	ctactgagcc	tttaaaaaata	ttagaagggt	ggtattaaac	300
caggtaaact	acggatttgg	aaaaaaaaaa	aaaagaaag	cattgaatat	ggctggcgcg	360
ttctctgggg	atccttggg	agaccaggt	tgccccgatt	tctactgta	gttttcaaga	420
ataactgtag	gaggcggtgg	gagtgcagca	tcctgagata	agggagacga	gccagaacag	480
cgcgggcact	gttccagccc	ccctagaaat	gggttgatct	tcagtgtctc	agctcagtgt	540
gtcatgtctc	accacagatg	taaaagccta	ggatcggagg	cttccccagg	gttcgtcagc	600
tgtggcacaa	tagggcccg	tgcaataaag	attctattcc	tgtcagacag	tttcgtgagt	660

ttgtggggga acactcaccc tagcttctgn tgnctcttca tgccctgtgtg ttcctaataca 720
acttttttgn gtaacttggt gttttgaaag tgccaccagc acacaatgga acctgtcn 778

<210> 147
<211> 784
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 147
acnntatgac ctgattacgc caacttggtg cgcactcgga ccactagtaa cggcccgccag 60
tgtgctggaa ttcgcccttt cgagcggccg cccgggcagg tacttttttt tttttttttt 120
tttttttttg ggattgaatc aacatgcttt aataggaaaa gatgtatggg ctatatatgn 180
atcaatctgg ngaancctcg ntctaataaa ggggtctttt cttttctatg atacacacag 240
ncacgctgat aatatgcnaa tgaacatttt cctttatgnc tctncanata atggttattg 300
gctgaggnaa attaaattcc caccanggnt tgctgncagt attttaacac ccacattagt 360
atatgcntnc agggctcataa ccccctaaaa tccatnatgc aaccttatta atctggcttg 420
ggantccngg ttaatgcttg gatttanttc ctgattacac tncntngaaa agtgagacat 480
ttgncattcc caactttggg aaaaccaact tatattcaac cntntnaatg aaggccatct 540
tgatggntcc aacactaatt tttatgatgc aaattttatac acngattttt gtaaagggca 600
aagttttaaa agcgtattta acttgatggt ttctatcagc attaatnaaa tggncatgaa 660
taggcattaa aaacagttgc cagtgatnat ctgcatgaaa ggaaaaagaa ccctgcaaat 720
ggctattgaa nttggaaata ttggntttga natgtaagaa aatntttaga aagctcncnc 780
tgng 784

<210> 148
<211> 775
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 148
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agcgtggctg cggccgaggt, acaaagcact gtttaaaacc agtccaagat acttaatcca 120
aactgtatca tgattcttca ttagaaatct agacaccact catggtgggt tcttacactt 180
taaaaagttg aggcattttc agtgtgagca ttctgaatat ctcttacata tcaaaaacaa 240
tacttccaac tcaatagcca ttgacagggt tctttttcct tcatgcagat tatcactggc 300
aactgttttt aatgactatt catgaccatt ttatttatgc tgatagaaaa catcaagtta 360
aatacgcttt taaaactttg tcttttacia aaatcagtgat ataaatttgc atcataaaaa 420
ttagtggttg gaccatcaag atggccttca tttatatggt tgtatattag ttgggtttcc 480
cagagttggg aatggcagat gtctcacttt tctatgtagt gtaatcagga aataaatcca 540
agcactaaac aggaatccca agacagatta ataagggtgc atgatggatt ttaggggggtt 600
atgacctgg acgcatatac taatgtgggt gttaaaatac tgacagcaag ccctgggtggg 660
aattaattta cctcagacaa taaacattat ctggagagac ataaaggaaa atgttcattt 720
gcatattatc agcgtggctg ggtgtatcat agaaaaagaa aaagaaccctt ttan 775

<210> 149
<211> 783
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(783)

<223> n = A,T,C or G

<400> 149

acnntatgac	ctgatacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacccgatta	aaccagagca	120
aaaactacct	tctgcaggtc	agggagctaa	tgacatggca	ttggccaaac	gttcccgcag	180
tcgaactgct	acagaatgtg	acgttcgtat	gagcaagtct	aagtcagaca	atcagatcag	240
tgacagagct	gctttggagg	ccaaagtga	ggatcttctc	acgctggcaa	aaaccaaaga	300
cgtagaaatt	ttacatttga	gaaatgaact	gcgagacatg	cgtgcccagc	tgggcattaa	360
tgaggatcat	tctgagggtg	atgaaaaatc	tgagaaggaa	actattatgg	ctcaccagcc	420
gactgatgtg	gagtcacatt	tattgcagtt	gcaggaacag	aatactgcca	tccgtgaaga	480
actcaaccag	ctgaaaaatg	aaaacagaat	gttaaaggac	aggttgaatg	cattgggctt	540
ttccctagag	cagagggttag	acaattctga	aaaactgttt	ggctatcagt	ccctgagccc	600
agaaatcacc	cctggtaacc	agagcgatgg	aggaggaact	ctgacttctt	cagtgggaang	660
ctctgcccct	ggctcantgg	gaggatctct	tgagtcagga	tgaaaataca	ctaattggacc	720
attagcacag	tacttcatgg	caatttagac	agtgagtga	atgaggtcta	ccagcccctt	780
ann						783

<210> 150

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (771)

<223> n = A,T,C or G

<400> 150

gggcccctan	agcatgctcg	acggccgcc	tgtgatggat	atctgcagaa	ttcgcccctt	60
cgagcggccg	cccgggcagg	tactgtgttg	gttctcttcc	atctgggtgta	tccgttcagt	120
caggcaagcc	acggacactt	cactggcatt	cccgtgctc	cccttccggg	agcgtcttat	180
gctggggatg	ccttccgact	ctgaggagga	tggtgcatcc	agcgcacatc	cgctcgatgt	240
gaggggctgg	tagacctcac	tgactcact	gtctaaattg	tccatggagt	tactgtgctg	300
atgggtccatt	agtgtatttt	catcctgact	caagagatcc	tccactgagc	caggggcaga	360
gccttccact	gaagaagtca	gagttcctcc	tccatcgctc	tggttaccag	gggtgatttc	420
tggtgctcagg	gactgatagc	caaacagttt	ttcagaattg	tctaacctct	gctctaggga	480
aaagcccaat	gcattcaacc	tgctctttaa	cattctgttt	tcatttttca	gctgggtgag	540
ttcttcacgg	atggcagtat	tctgttcctg	caactgcaat	aaagtggact	ccacatcaag	600
tcggctggtg	agccataata	gtttccttct	cagatttttc	atcacctca	gaatgatcct	660
cattaatgcc	cagctgggca	cgcatgtctc	gcagttcatt	tctcaaatgt	aaaatttcta	720
cgtctttggt	ttttggcagc	gtgagaagat	ccttncttgg	nctcnaagcn	g	771

<210> 151

<211> 778

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (778)

<223> n = A,T,C or G

<400> 151

acnntatgac	ctgatacgcc	agcttggtac	cgactcggat	ccactagtaa	cggccgccag	60
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acatctgatt	ttaatgcttc	gttaacttca	aaaggaaactg	gtagagttca	gaaggtgagc	180
tgttggtttt	ctaaacctct	tcccaggaag	gagacattga	cacttgaatt	tttggcacct	240
tttccctcat	tagaaggaaa	gtagaaagcc	ttactgtagg	atttttaaaa	aaaaatccat	300
cttcccccat	attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	360
gtagaattta	gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggctctac	420
ttttttcccc	acctctgccc	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	480

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acctctgctt cctaggttca agtgattctc ctgcctcage ctcccaagta gctgggattg 540
taagagtatg ccaccacgcc cagctacttt ttgtattttt agtagagaca gggtttcatc 600
atgttggcca ggatgggtctc ttaactcctg ccctcaaagt gatccaccag agaggagatc 660
ctcggcctnc ccaagtgtctg ggattatagg catgagccac cgtaccacag ctactttcta 720
attaattaaa aaaaaannnn nnnnaaaaaa aacttnccaa atgagctgat aaaaacng 778

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<210> 152
<211> 772
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

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<400> 152
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ttccttgaga ttactgtagt gtgttccagc taatttctat ttggaaacga gttggaacag 180
ctgaaaacta ggtattattg aaggcaaagt agcctcacgt cagtttttta tcagctcatt 240
tggaagttt tttttttttt tttttttttt tttaattaat tagaaagtag gctgggtacg 300
gtggctcatg cctataatcc cagcacttgg ggaggccgag gatctcctct ctgggtggatc 360
acttgagggc aggagttaag agaccatcct ggccaacatg atgaaaccct gtctctacta 420
aaaatacaaa aagtagctgg gcgtgggtggc atactcttac aatcccagct acttgggagg 480
ctgaggcagg agaatcactt gaacctagga agcagagggt gcagtgggcc aagatcacac 540
cactatactc tagcctgggc gccagagggt gggaaaaaag taggaccctc gtcctatatt 600
caggtttttc tcacatatat gaacccatct aaattctacg ttgttaaagg tagcttaagt 660
taattagtct atacttattt aagaccaata tggggtgaga tggatttttt tttaaaaaat 720
cctacagtaa ggntttctac tttccttcta atgaggaaaa angnggcaaa at 772

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<210> 153
<211> 780
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

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<400> 153
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tttttttttt tttagttaaa gaatgcttta ttaatacaaa tacacacaaa ctctgaagca 180
ctaagaaatt taaatatcta tgtcacagca aacagggtggc aattcaacat ccagggtcga 240
cagaatgctt gaaggagact gcaacagatt ggattcccat ggtggagagg gcatnttcac 300
aggtgaaggg gggcccagct gaaacagctt ttcaagctct ctctcctcgt caaggatcat 360
gagaggcact ccactcaagg ggagggtgcgc aatctggtgc tcttcaggca ggtcaaaact 420
ctcaaagtct agaggattga agggaaaagaa tttttctatt tctggatagg catcatctga 480
ggcaggaaca gagctttttg ctttaacagt cttctcagtc atcttttttg cagaaaagct 540
tggtgttttt tgtttgaggg gtcccttggg ctttacagac ttttctgtag ctctgttgac 600
agttcccaaa gcctttctag tagctttagg taaggctggg ggggcatcga acgttttgcc 660
aaaacgtggg gttgaaactt gagatctccc atctaangct ttgattgaan gtccagaccc 720
cagcttcagc ccattccttag caaccacacn ggtgcctggg tctncatttt ccttatnang 780

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<210> 154
<211> 770
<212> DNA
<213> Homo Sapien

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<220>

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<221> misc_feature
 <222> (1)...(770)
 <223> n = A,T,C or G

<400> 154

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cctgcaataa	tccagaatgg	ctactctgat	ctatgttgat	aaggaaaatg	gagaaccagg	180
caccocgtgtg	gttgctaagg	atgggctgaa	gctgggggtct	ggaccttcaa	tcaaagcctt	240
agatggggaga	tctcaagttt	caacaccacg	ttttggcaaa	acgttcgatg	ccccaccagc	300
cttacctaaa	gctactagaa	aggctttggg	aactgtcaac	agagctacag	aaaagtctgt	360
aaagaccaag	ggaccctcca	aacaaaaaca	gccaaagcttt	tctgccaaaa	agatgactga	420
gaagactgtt	aaagcaaaaa	gctctgttcc	tgccctcagat	gatgcctatc	cagaaataga	480
aaaattcttt	cccttcaatc	ctctagactt	tgagagtttt	gacctgcctg	aagagcacca	540
gattgcgcac	ctccccctga	gtggagtggc	tctcatgatc	cttgacgagg	agagagagct	600
tgaaaagctg	tttcagctgg	gcccccttc	acctgtgaag	atgccctctt	caccatggga	660
atccaatctg	gtgcagcttc	ttcaagcatt	ctgtcgaccc	tggatgttga	attgccacct	720
gtttgctgtg	acatagatat	ttaaatttct	tagtgcttca	gagtttgnng		770

<210> 155
 <211> 767
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(767)
 <223> n = A,T,C or G

<400> 155

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gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtac	gcggggccgc	tgataaactg	120
ccctgggaca	cagcagcggg	aagccgcctg	cagactgaac	ctcactgacc	caggtggaaa	180
tcgttaggtc	atttactgct	aagcagccag	atgaactctc	cctgcagggtg	gctgacgtcg	240
tcctcatcta	tcaacgtgtc	agcgatggct	ggatagaggg	ggaacgacta	cgagatggag	300
aaagaggctg	gtttcctatg	gaatgtgcca	aggagataac	atgtcaagct	acaattgata	360
agaatgtgga	gagaatggga	cgcttgctag	gactggagac	caacgtgtag	tctctcagat	420
ggtcttttgt	tactgcaaga	tttgacagac	acttaccggg	ctggttggtt	ctgggctagt	480
tttattgnta	attttgtcac	agcctattta	attaaaagaa	cgaaaacact	tgcccttaag	540
cttgccagggt	tggtctgtct	tctcatgaga	agagcttgga	tacagtgaat	ttgcacagct	600
cagttttttc	ctaaccacac	acttgacagc	ctnctgaggt	acctgcccgg	gcggccgctc	660
gaaangcgga	attctgcaga	tatccatcac	acttggcggg	cgctcgaaca	tgcatctaga	720
nggcccaatt	cgncctatag	tgagtcgtat	tacaattcac	tggnicgc		767

<210> 156
 <211> 827
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(827)
 <223> n = A,T,C or G

<400> 156

attgggcccc	tagatgcatg	ctcgacggcc	gccagtgtga	tggatatctg	cagaattcgc	60
cctttcgagc	ggcggcccgg	gcaggtacct	caggaggtct	gcaagtgtgt	ggttaggtaa	120
aaactgagct	gtgcaaaact	actgtatcca	agctcttctc	atgagagagc	agaacaacct	180
ggcaagctta	aaggcaagtg	ttttcgttct	tttaattaaa	taggctgtga	caaaattaac	240
aataaaacta	gcccagaacc	aaccagcccc	gtaagtgtcg	tgcaaactct	gcagtaacaa	300
aagaccatct	gagagactac	acgttggtct	ccagtcctag	caagcgtccc	attctctcca	360
cattcttatc	aattgtagct	tgacatgtta	tctccttggc	acattccata	ggaaaccagc	420

ctctttctcc	atctcgtagt	cgttccccct	cataccagcc	attggctgac	acnttgattg	480
gatgaaggcc	ancttanncc	nactngcagg	gagaagtcaa	tttgnttgnt	taaccnntna	540
atggancctt	accnanttnc	acctgggggtc	aagtgagggt	tcaagtctgc	angcgggttc	600
ccgctgctgt	ggtcccaagg	gcaagttatn	cagcggggcc	cgcgttacct	tgggcccggg	660
accaacgcct	taangggccg	aaattttccaa	gcacacttgg	ccggcccgtt	acctagtggg	720
atnccgaact	tcgggtaccc	aaagccttgg	gcgttaatca	atgggtcaat	aggcttggtt	780
tcctgggtgtg	naaaattggt	aatccgggtc	acaanttccc	cacaaca		827

<210> 157

<211> 818

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (818)

<223> n = A,T,C or G

<400> 157

aacactatga	cctgatacgc	cancttggtg	ccgnetcgga	tccttagtaa	cgggccgccag	60
tgtgctggaa	ttcgcccttt	cgagcggccg	ccgggcagggt	acataatctg	gaaatttatg	120
ttacagggtat	gcatatttgt	atatgaaaaa	tattaactga	gaaattactg	agcttcttag	180
caaaaaatat	aattattttca	gagatatgat	acagtttaaat	atctgccttc	ctcaaaaagt	240
cagaaaataa	aaagtttttaa	attgcatata	ttttcatttc	ttacatatgt	cagaacactc	300
agaattttta	ataaaatggt	ttaaaacata	attataagtt	gttactttta	tttctatggt	360
tagtggaacc	cacaggggtcc	tgtatctgat	taaatggagg	atatattagg	agaatttttt	420
agaagaatga	cacatgtgac	ataccaccat	atttgcaaga	aaatataact	tgatagttaga	480
gtaagtttagc	tgctttatat	gatgaattaa	aggcactagc	tcttagaaaa	aaaaggatta	540
aaatgctgac	ttcagtaata	atgtaaggag	ctctgctctt	taacatttcc	taattaggta	600
taaaactatga	tggaaggga	aggtggaatg	gaagtntcta	cntnttacca	ttggctttcn	660
ttcatgaaat	tggcaggnag	cctnccattt	cnnnaggmct	ttaatnaaaa	antttttccc	720
aacttttntct	tttcnaaaaa	nttnttnncc	nnatngnnaa	ctggnggtna	aaaccgggct	780
tttttggggg	gaaancctac	ctggntnggg	naaaaaant			818

<210> 158

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (772)

<223> n = A,T,C or G

<400> 158

ntgggcccct	nnagcatgct	cgacggccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
ttagcgtggt	cgcgcccgag	gtacttcaac	caccctcct	acaaaactct	atacccttgt	120
catattaaaa	ttgtatgtta	tgccaggctt	ccctaataca	acaaaatctc	tgaataaaaac	180
ctattaaata	tacaattttct	atcaacatgc	ctgccacaca	tgcttaataa	ttgcttagtg	240
aatacaagat	taatgcatga	gtgcctaagt	tacttcatct	agtataacaa	atgacaatat	300
ctcatttggt	tcccgaagta	tccttattcc	attcaagctc	tgaagaaagt	attaatgata	360
ttcgtccctta	agtaattttt	tctgcattca	aatctcacca	ttcaaatgat	tttccaacag	420
tagtttcccc	aaaagcagtt	tacacagtta	catttggtat	aatttttgaa	agaaaagttg	480
ggaaaatttt	attaagactc	tgaatgtagc	ttactgccaa	ttcatgaaga	aagcaatgta	540
atacgtagat	acttcattcc	acctttccct	tcacatagat	ttataactaa	ttaggaaatg	600
ttaaagagca	gagctcctta	cattattact	gaagtcagca	tttatacttt	tttttctaag	660
agctagtgcc	tttaattcat	catataaagc	agctaactta	ctctactatc	aagttatatt	720
ttcttgcaaa	tatgggtggt	tgctcacatgt	gtcattcttc	taaaaaattc	tg	772

<210> 159

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 159

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gnaangcccc	tttccggggg	gggaaattcc	ccccaaccct	ttaaagggtt	aaaaaccggg	120
gggccnccgg	gccccccaaa	ggtttgggtt	tgggcccttt	gggggggaaa	aattttttcc	180
gggccccccc	nttttttaaag	gccgggttgg	gggggtttcc	ggggccgggg	gccccccgga	240
aaaggggttt	aacccccctn	aatttttttn	gggtttttcc	cccccaaatin	gggtttccaa	300
tttttttttt	tttaaaaaaac	ccaaaanggg	aaaaaaaggg	gttggcccaa	aatttaaggg	360
cctttctttc	aaaagggttt	cctttgggaa	aaaaaaacct	tgggttgggg	gaaaagggtt	420
nccccaaaaat	ttaaacctgg	gaaaaccttc	tttgggnaac	ccactttaaa	aatttaaant	480
taaanttaaa	tttaaattta	aanntaagga	atgggnttgg	aaaaaaaaag	gaatattccn	540
ttaatttggc	cttaattttt	taatttgnn	atttgactgg	tnatgnnttt	acttttnaaa	600
aacntnctnn	ccaaaaacca	attttacntg	gncnngtggg	atttaccntn	ttcnattacc	660
ngggagttaa	cccaactnga	acntttngga	gggnccagtc	ctccataggg	acctccntca	720
ntnttgatnc	caactgcaag	ttcagggaaa	ttctcacatc	ccccttgggc	natatatctc	780
tttaaaagcn	cctcacagca	ctcactgaan	tctattatat	tatagatang	gtntattatg	840
ggaaaanggt	nacannntcaa	natnncccaa	cgcggggana	cacannngnc	agngcccgat	900
gatnttccna	nacacagant	ttggtgttct	ctggagncgt	ttccccnta	gnaaaatggt	960
gacacntgga	cagagttttt	acccccaggg	gaacgtnaat	caatctttgg	aagtttcaaa	1020
tcag						1024

<210> 160

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 160

gggcctctnn	agcatgctcg	agcgggccgc	agtgtgatgg	atatctgcag	aattcgccct	60
ttcgagcggc	cgccccgggca	ggtactgtaa	gttattttct	tccttatctc	ccaatgacac	120
tgttttctac	atgaaaaata	ccattttggc	tttatcaaca	tgttattaat	tcataatatg	180
agagatctat	cagcactatt	tgtaaaaaata	ttcaattaaa	aaaattaaga	tgatttatag	240
ttgtgtggta	aagaatttga	ccttacccaa	aggaggtcag	gcttttgccc	tcagccttaa	300
ggagataatc	ttgtcatacc	caataaaagt	gttattttta	agtgaggctg	actacacctg	360
ataatccagc	ttgagggaca	ggtatgccag	tttgaccaac	tagatgattt	agggagcttt	420
ctctcccaac	ttcaaagctg	tgatgaatca	aacaggtaat	taatcgatca	tgcttatgta	480
atgaagcctt	gattgaaact	tcaaagattg	attgacgttc	cttggttggg	aatactctgt	540
catgtgtcaa	ttctagaagg	gtaatacgtc	ctgaggataa	cagaagctct	gtgtttggaa	600
tcaccttgga	ctctgcactt	tgnttctcct	gctttggctg	attttgatct	gtaaccttta	660
ccataataaa	accataacta	taatataata	gatttcagtg	agtgcgtgta	ngctttctag	720
tgattttattg	aacctaaagg	tggtatgtgag	aatttnctga	acttgcagtt	g	771

<210> 161

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 161

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acncttgacc tgatcgccag cttggtaccg actcggaccc tagtaacggc cgccagtgtg      60
ctggaattcg cccttagcgt ggtcgcggcc cgaggtagac aatttattat gaaatagctt      120
aatggcaagt ggtaatttag aagaattaag ttatcagata ggagatatat taaaatattt      180
aaaaattgga tatattcttg aagccctttt acacaagtaa tttctataat ttgattgtaa      240
tgaaagtata atataccttg ttactattat cagattaatt tttgaaagta gaattcctta      300
atcaagccaa ggttatgctg ctttataaga aattaatcag gtagtttaac actagagctc      360
attagccaac ctgtatgtag cacaaaataa tcactctctga taaataccta taaatatatt      420
ttattcatac ttttaaatat tttaacaattc aaataaaaaac cttatatgta gacaatctgg      480
gctaaatttc catgtatggt ttgaaaaata atggttagcat gaatagattc atattttaa      540
atgattttta atactcttaa tagaggagac ataagaaata tttacataaa agctaagtag      600
catgatacag ctcatgggta ttttcctcat agggaaacaa ttacttgatt ttttttgca      660
taggattaaa gactgagtat cttttctaca ttcttttaac tttctaangg gcacttctca      720
aaacacagac caggtagtaa atctncactg ntctaagggtc tcacccact t              771

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<210> 162

<211> 768

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (768)

<223> n = A,T,C or G

<400> 162

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gggcccctnn agctgctcgn cggccgcccag tgtgatggat atctgcagaa ttcgccctta      60
gcgccgccc gggcaggtag tacaaaaaca gaataatttt gaagttttag aataaatgta      120
atatatttac tataattcta aatgttttaa tgcttttcta aaaatgcaaa actatgatgt      180
ttagttgctt tattttacct ctatgtgatt atttttctta attgttattt tttataatca      240
ttatttttct gaaccattct tctggcctca gaagtaggac tgaattctac tattgctagg      300
tgtgagaaag tgggtggtgag aaccttagag cagtggagat ttactacctg gtctgtgttt      360
tgagaagtgc cccttagaaa gttaaaagaa tgtagaaaag atactcagtc ttaatcctat      420
gcaaaaaaaaa atcaagtaat tgttttccta tgaggaaaat aaccatgagc tgtatcatgc      480
tacttagctt ttatgtaaat atttcttatg tctcctctat taagagtatt taaaatcata      540
tttaaatatg aatctattca tgctaacatt atttttcaaa acatacatgg aaatttagcc      600
cagattgtct acatataagg tttttatttg aattgtaaaa tatttaaaaag tatgaataaa      660
atatatttat aggtatttat cagagatgat tattttgtgc tacatacagg ttgggctaatt      720
gagctctagt ggtaaactac ctgataattt cttataaagc agcatacc              768

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<210> 163

<211> 776

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (776)

<223> n = A,T,C or G

<400> 163

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nantatgacc tgatagcca acttggtacc gactcggatc cactagtaac ggccgcccagt      60
gtgctggaat tcgcccttag cgtggctcgc gccgaggtag tcttccgcag aggggaaggct      120
gtagaagtct ttgcaagctt catacagaga aatacaaaaag gtgtgatgcc attaactggg      180
cctttctaaa gcattaggaa tttagtgaag ctctcaaaaca caaaactgaa aagccatttg      240
aacaaatctc atatacttgt agataagctt ttttttattt aaagcataca aattcaaadc      300
tttcaagcag aaaattcagt caagtgaagt ccattgggtg tttgagttca aagtcagtga      360
gcaaatggaa atcattgcgg catctctctc atttccttag tggacattag accactcaaa      420
atgtgtcaca taatttacag ccccttggtg gtaattgaat atacacgttg agagtgcact      480
ggcagaacac ttaagaaaga ttgaatgcag gaggaccagc ttacgttatt tttggctcta      540
ctctggtttt tgcttttaat gttttttctt gagattaatt tcaattgggt tgttccatcc      600
tattcaaaca aatgctttga gagaagagat gaacagcagc atcaaataaa atttgtatat      660

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ttagtttnag agacatcang tgttgtaatc aaataagaca gaanggccaa gttaaaatct 720
 gtgattngca taaatgaatt taactgttag aatagcanaa ttgagaggtg gattan 776

<210> 164

<211> 773

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (773)

<223> n = A,T,C or G

<400> 164

cgggcctcta	gatgctgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcgccg	cccgggcagg	tacacagtgg	ataccacata	ctcgctctga	ggaagaagga	120
ggaggagaaa	gaggagaagg	aaggaaattt	tcaaatagaca	atttctatca	ggactcattt	180
tcctattata	agttcagaat	acttggacgt	ctttataaaa	tcaagttgaa	atctctacta	240
ttttgatctg	tattctctta	aatattaaag	gttataccta	gggagattcc	atgttgactg	300
gcaaacaaag	cataccattt	taagaataac	tcttcataaa	atatgtgtct	aagaattaaa	360
agtgtctagt	aacagatata	caaaagagag	attagaata	attaatattt	aaagacagat	420
aattttaatg	tttcacactt	ttaactacaa	aattctttgt	tttctaaat	attagcaaaa	480
atgttatata	ttaaaataaa	tcttgaaaat	ctcaccctac	atthagataa	tagttcaaaa	540
gtcatattgc	taattctacct	ctcaattctg	ctattcttac	agcttaaatt	catttatggc	600
aaatcacaga	ttttactttg	tccttctgtc	ttatttgatt	acaacacctg	atgtctctga	660
aactaaatat	ccaattttatt	tgatgctgct	gttcatctct	tctctcaaag	cattngtttg	720
aatangatgg	aacaacccaa	ttgaaattaa	tctcaaggaa	aaacattaaa	ant	773

<210> 165

<211> 783

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (783)

<223> n = A,T,C or G

<400> 165

tnnnnnacac	tatgacctga	ttacgccanc	ttggtaccga	ctcggatcca	ctagtaacgg	60
ccgccagtgt	gctggaattc	gcccttagcg	tggtcgcggc	cgaggtagac	taggaaaata	120
agaataacaa	cgggcaaaat	cttttttagaa	catttatgct	ttatctgttt	tagcttctaa	180
aacaatcctg	aaggatgaat	aattatcatg	agtatagcag	aattttaattt	tccctgttgc	240
tccaaaattt	taatgaaaac	tttacggttg	agagaaatag	gtaaataaaa	aaacttccta	300
aaattctaaa	gacaattgtt	gaataaaaatt	taagtgaatg	agtttgtgct	tcatatttaa	360
cttttaactt	tccaataggc	tttattaaat	ggaaaactga	aatttacaaa	gtcttagagt	420
agaagcattt	ttatcctggc	tagggattct	ctaagagAAC	cagtagcacc	aagatgcact	480
ggaacagtgc	aacgagagag	ttcatgcctt	agggtttaga	agcatacaag	caaagggaat	540
ggtgcccact	tcttactaga	aaaatttcac	aggctggagt	ctgggaggag	gagcctggga	600
tgacagtaga	agtgtgcagg	aagcactaag	tctagcctgt	acctgcccgg	gcggccgctc	660
gaaaggcgaa	ttctgcagat	atncatcaca	ctggccggcc	gntcgagcat	gcantagag	720
ggcccaattc	gcctatagtg	ancgtattac	aattcactgg	ccgcgtttta	caacgtnnng	780
cnn						783

<210> 166

<211> 775

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (775)

<223> n = A, T, C or G

<400> 166

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ccttcgagcg	gccgcccggg	caggtacagg	ctagacttag	tgcttcctgc	acacttctac	120
tgtcatccca	ggctcctccg	cccagactcc	agcctgtgaa	atctttctag	taagaagtgg	180
gcaccattcc	ctttgcttgt	atgcttctaa	accctaaggc	atgaactctc	tcgttgcaat	240
gttccagtg	atcttggtgc	tactggttct	cttagagaat	ccctagccag	gataaaaatg	300
cttctactct	aagactttgt	aaatttcagt	tttccattta	ataaagccta	ttggaaagtt	360
aaaagttaaa	tatgaagcac	aaactcattc	acttaaattt	tattcaacaa	ttgtctttag	420
aatttttagga	agttttttta	tttacctatt	tctctcaacc	gtaaagtttt	cattaaaatt	480
ttggagcaac	agggaaaatt	aaattctgct	atactcatga	taattattca	tccttcagga	540
ttgttttaga	agctaaaaca	gataaagcat	aaatgttcta	aaaagatttt	gcccgttgtt	600
attcttattt	tcctactgna	cctcggccgc	gaccacgcta	agggcgcaatt	ccagcacact	660
ggcggccggt	actagtggat	ccgagctcgg	taccaanctt	ggcgtaatca	tggtcatagc	720
tggttcctgt	gtgaaantgt	atccgntcac	aattcacaca	acatacganc	cggag	775

<210> 167

<211> 797

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (797)

<223> n = A, T, C or G

<400> 167

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gccgccagtg	tgctggaatt	cgcccttagc	gtggctcgcg	ccgaggtact	ttcagaaggt	120
aaatcagtag	atcacccatg	tgtatctgca	ccttctcaac	tgagagaaga	accacagttg	180
aaacctgctt	ttatcatttt	caagatgggt	atctgtagaa	ggcgaggaaac	caattatgct	240
tgtattcata	agtattactc	taaatgtttt	gtttttgtaa	ttctgactaa	gaccttttaa	300
ccatgggttag	ttgctagtac	ccttccttgt	ccgaaggagc	tgaccagtat	tgatgagaga	360
gtccaggcag	ctcctgaagt	tcagctggta	gtttgttctc	tgaacatttg	gtctcttgaa	420
ggcacagtat	atctggggct	tcttccttta	cccaatctaa	tcctttcttc	ttaatccagg	480
ctcgaagccc	atncacattc	caagagcaga	tcttgagtgt	ggcagggttg	ccactgggtg	540
aggttttctg	atctgggggg	tcctcataca	gggctggggc	cctntcctgc	tgccctcttg	600
tcattttctt	tgccggccgt	cttactcttc	ttggcctctg	gcttctgtcc	tgagctcatc	660
cccgtctttc	ggccaccngt	tccccttttt	tacacgcctt	cggcatttcc	cgttaccgaa	720
cgccctttgg	gcagctgtac	ctgccccngg	cggcgcgttc	aaaaggccna	attcttgcag	780
aatttccatc	ncaccnn					797

<210> 168

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (780)

<223> n = A, T, C or G

<400> 168

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tgtgctggaa	ttcgccctta	gcgtgggtgc	ggccgaggta	ctccggtcgg	tgctcagcagc	120
acgcggcatt	gaacattgca	atgtggagcc	caaaccacag	aaaatggggg	gaaattggcc	180
aactttctat	taacttatgt	tggcaatttt	gccaccaaca	gtaagctggc	ccttctaata	240
aaagaaaatt	gaaagggttc	tcactaaacg	gaattaagta	gtggagtcaa	gagactccca	300
ggcctcagcg	tacctgccc	ggcggccgct	cgaaggcgcg	aattctgcag	atatccatca	360
cactggcggc	cgctcgagca	tgcatctaga	gggcccattt	cgcctatag	tgagtogtat	420
tacaattcac	tggccgtcgt	tttacaacgt	cgtgactggg	aaaaccctgg	cgttacccaa	480

cttaategcc	ttgcagcaca	tccccctttc	gccagctggc	gtaatagcga	agaggcccg	540
accgatcgcc	cttcccaaca	gttgcgcagc	ctgaatggcg	aatggacgcg	ccctgtaacg	600
gcgcattaag	cgcgccgggt	gtggtggtta	cgcgacgcgt	gacccgtaca	cttgccagcg	660
ccctanccgc	cgctnctttc	gctttcttcc	ctttctttct	tngcacgttc	gccggctttt	720
cccgtcaagc	tctaaatcgg	gggctccttt	tanggttccg	atttantgct	ttacnagnacn	780

<210> 169

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (771)

<223> n = A, T, C or G

<400> 169

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cgagcgcccg	cccgggcagg	tacgctgagg	cctgggagtc	tcttgactcc	actacttaat	120
tccgttttagt	gagaaacctt	tcaattttct	tttattagaa	gggccagctt	actgttggtg	180
gcaaaattgc	caacataagt	taatagaaag	ttggccaatt	tcacccatt	ttctgtggtt	240
tgggctccac	attgcaatgt	tcaatgccgc	gtgctgctga	caccgaccgg	agtacctcgg	300
ccgcgaccac	gctaaggggc	aattccagca	cactggcggc	cgttactagt	ggatccgagc	360
tccgtaccac	gcttggcgta	atcatggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	420
ctcacaattc	cacacaacat	acgagccgga	agcataaagt	gtaaaagcctg	gggtgcctaa	480
tgagtgaagt	aactcacatt	aattgcgttg	cgctcactgc	ccgctttcca	gtcgggaaac	540
ctgtcgtgcc	agctgcatta	atgaatcggc	caacgcgcgg	ggagaggcgg	tttgcgattt	600
gggcgctctt	ccgcttcttc	gctcactgac	tcgctgcgct	cggtcgcttc	gctgcggcga	660
gcggtatcaa	gctactcaaa	ggcngtaata	ccgntatcca	cagaatcagg	ggataacgca	720
ggaaagaaca	ttgtgagcaa	aaggcancaa	aagggcagga	accgtaaaaa	n	771

<210> 170

<211> 777

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (777)

<223> n = A, T, C or G

<400> 170

acacttgacc	tgatacgcca	acttggtacc	gagctcggac	cactagtaac	ggccgcagct	60
gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtag	acagaatagc	tgagcagttc	120
acttcaggga	tcaggctcatc	tctgctcttc	ctagtttcac	catgttctgg	caataaaaaa	180
cacatattat	atcctgggtt	tctctatcct	tgcattacta	aggtgactgt	ctctctttat	240
acatccttgt	atggttctcc	cagtattagc	aagattgtat	atctgtaaag	aatgtccagt	300
tttgtaaata	tttccctgcc	tttttttttc	ttttttttaca	tctgatttta	atgcttcggt	360
aacttcaaaa	ggaactggta	gagttcagaa	ggtgagctgt	tgtttttcta	aacctcttcc	420
caggaagggg	acattgacac	ttgaattttt	gtcacctttt	tcctcattag	aaggaaagta	480
gaaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	accccatatt	ggctcttaaat	540
aagtatagac	taattaacct	aagctacctt	taacaacgta	gaatttagat	gggttcatat	600
atgtgagaaa	aacctgaata	taggacaggg	gtcctacttt	tttccccacc	tctgtcgccc	660
aggctagagt	atagtgggtg	gatcttggcc	cactgnaacc	tctgcttcc	anggtcaagt	720
gattcttcc	gcctcacctt	ccaagtagct	gggattggaa	gaatatgccn	ccccccg	777

<210> 171

<211> 782

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature
 <222> (1) ... (782)
 <223> n = A,T,C or G

<400> 171

nnngggcccnt	agagcatgct	cgacggccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
tttcgagcgg	ccgcccgggc	aggtaactttt	tttttttttt	tttttttttt	tttaattaat	120
tagaaagtag	gctgggcacg	gtggctcatg	cctataatcc	cagcacttgg	ggaggccgag	180
gatctcctct	ctgggtggatc	acttgagggc	aggagttaag	agaccatcct	ggccaacatg	240
atgaaaccct	gtctctacta	aaaatacaaa	aagtagctgg	gcgtgggtggc	atactcttac	300
aatcccagct	acttgggagg	ctgaggcagg	agaatcactt	gaacctagga	agcagagggt	360
gcagtggggc	aagatcacac	cactatactc	tagcctgggc	gacagagggtg	gggaaaaaag	420
taggacccct	gtcctatatt	cagggtttttc	tcacatatat	gaacccatct	aaattctacg	480
ttgttaaagg	tagcttaggt	taattagtct	atacttattt	aagaccaata	tggggtgaga	540
tggatttttt	tttaaaaatc	ctacagtaag	gctttctact	ttccttctaa	tgaggaaaaa	600
ggtgacaaaa	attcaagtgt	caatgtcccc	ttcctgggaa	gaggtttaga	aaaacaacag	660
ctcaccttct	gaactctacc	agttcctttt	tgaaagttaa	ccgaagcatt	aaaatcagat	720
gttaaaaaag	aaaaaaaaaa	ggcngggaaa	atatttacaa	aactgggaca	ttctttacag	780
an						782

<210> 172
 <211> 773
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (773)
 <223> n = A,T,C or G

<400> 172

canttgcact	gatacgccaa	cttggtaccg	actcggacca	ctagtaacgg	ccgccagtgt	60
gctggaattc	gccctttcga	gcgcccgccc	gggcaggtac	catcctgtgg	ctccttaagg	120
aggcttctct	ctttaattct	ccatgaggca	tccagggtgg	tctgggctat	gggaagaacc	180
cttcaacttg	ggagtagaca	ggtgctccaa	ttcatagtgc	ccattctcag	aggccttggtg	240
tgtgagtttc	tccttcacgc	cttccttctg	gctcttcttg	tgctccataa	tctgctggag	300
ctggtgccca	gcatagtctg	gcttggtggt	cagcgggcca	gccggcacag	ctacaccaag	360
gacatctgac	accatgtagg	ggcgcagcca	gccaccaag	ggagtgttc	cggggctgta	420
gtgggtctgt	ttgtggtaga	agagaagtc	atctacctca	aaagggaaat	ccatagatag	480
cacatcacac	aggctttcgg	gagtgcgaag	gaagttcttt	agccccacaa	atttaaaagg	540
attaagcttg	gttttctctc	ccagtccttc	ttcttctggt	aactttgaat	gcatccagta	600
gaatcggaaa	tcaagtctgg	caatcataaa	aagggtgtcc	ccgccagcac	atcacattca	660
gaacgtagta	ggtctggttt	acctcattgt	aaatgcaatc	tagaatggtg	taagcttttg	720
ctgntgaagt	ttccctgtgc	ctctggcaga	atgaagaaan	ctgttgacac	aac	773

<210> 173
 <211> 772
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (772)
 <223> n = A,T,C or G

<400> 173

ntgggectct	nnagctgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggtcg	cggccgaggt	acagttcctt	ggagcagagt	gagcgccgcc	ggaggttact	120
ggaactgcag	aaatccaagc	ggctggatta	tgtgaaccat	gccagaagac	tggctgaaga	180
tgactggaca	gggatggaga	gtgaggaaga	aaaataagaa	agatgatgaa	gaaatggaca	240
ttgacactgt	caagaagtta	ccaaaacact	atgctaatac	attgatgctt	tctgagtgggt	300
taattgacgt	tccttcagat	ttggggcagg	aatggattgt	ggctgtgtgc	cctgttgga	360

aaagagccct	tatcgtggcc	tccaggggtt	ctaccagtgc	ctacaccaag	agtggctact	420
gtgtcaacag	gttttcttca	cttctgccag	gaggcaacag	gcgaaactca	acagcaaaaag	480
actacaccat	tctagattgc	atttacaatg	aggtaaacca	gacctactac	gttctggatg	540
tgatgtgctg	gcggggacac	cctttttatg	attgccagac	tgatttccga	ttctactgga	600
tgcattcaaa	gttaccagaa	gaagaaggac	tgggagagaa	aaccaagctt	aatcctttta	660
aattttgtggg	gctaaagaac	ttcccttgca	ctcccgaag	cctgtgtgat	gtgctatcta	720
tggatttcct	tttgaggtag	atggacttct	cttctaccac	aaacagaccc	ac	772

<210> 174

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (780)

<223> n = A,T,C or G

<400> 174

acactatgac	ctgatacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgccc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacaaaaata	cattttttcca	120
catacaaaaag	agagaaaaaa	acaaagacat	gtggcgggtg	gcgaggggag	gcccaatccc	180
aacaccctac	aaggttccat	ggaatggaga	aggaacaaaa	aatcccccaa	ttattttggg	240
gtaagatgtg	ccccagaaaa	ggtgaaatct	atgcaataaa	acccagggtt	tcttcaaadc	300
tagcatctag	gatttctatc	agagtttcaa	ataatcagaa	tttctatcag	aatttctacc	360
ctgagggtgac	acctaactaac	tgtagggttct	ttcattaaaa	atgaagacat	ctttcaccag	420
aatgtatcaa	gctataaaaac	tggtttcaga	gcctacactt	agccagagtg	gaaaaaaaat	480
agtgcataatt	ttcgacagca	attttgaatt	gatgcttgag	gtctcaatcc	accagcacc	540
agatatcatg	ttacctccct	cagttgaata	caagttaaaa	tgatgatctt	atcgagatct	600
caatagagca	cagtgccctt	catgtttcgg	gtaagaaggt	gggaggagga	atgaagccgg	660
gtattacacc	cagcccaatg	acagcttaag	ccttaacatg	cnggcattct	acaatgacca	720
taaacaaggg	angggccaag	canggctngc	gatcattact	ttgcgcacag	aatgccatgt	780

<210> 175

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (771)

<223> n = A,T,C or G

<400> 175

gggcctctag	agcatgctcg	agcggccgccc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gccgggcagg	tactaaaaca	gctttgctta	tggtggccag	gggaaaacat	120
ggcattctgt	gcgcaaagct	aatgatcgcc	agccctgect	tgccccctcc	cttgtttatg	180
gtcattgtaa	gatgcccgc	tgtaaggct	taagctgtca	ctgggctggg	tgtaataccc	240
gcttcattcc	tcctcccacc	ctcttaccg	aaacatgaag	ggcactgtgc	tctattgaga	300
tctcgataag	atcatcattt	taacttgat	tcaactgagg	gaggtaacat	gatattctggg	360
tgctggtgga	ttgagacctc	aagcatcaat	tcaaaattgc	tgtcgaaaat	atgcactatt	420
ttttttccac	tctggctaag	tgtaggctct	gaagccagtt	ttatagcttg	atacattctg	480
gtgaaagatg	tcttcatttt	taatgaaaga	acctacagtt	agtaggtgtc	acctcaggg	540
agaaattctg	atagaaattc	tgattatttg	aaactctgat	agaaatccta	gatgctagat	600
ttgaagaaaa	cctgggtttt	attgcataga	tttcacctt	tctggggcac	atcttacc	660
aaaataattg	gggatttttt	tgntccttct	ccattccatg	gaaccttgta	gggtgtttgg	720
gattgggcct	tcctngcca	cccgccacat	gtctttgggt	ttttctctct	t	771

<210> 176

<211> 773

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(773)

<223> n = A,T,C or G

<400> 176

atngggcctc	tagagcatgc	tcgagcggcc	gccatgtgat	ggatatctgc	agaattcgcc	60
cttagcgtgg	tcgcggccga	ggtactcatg	tatttttttt	ttttccaga	tctctttccc	120
caagttgcta	ttgtaagagt	attctgctgc	gtgtggatgc	agttatacac	attaaagcag	180
atctggagtc	tgaagtagct	ataaagcagc	tataaaacag	aaatacatgc	atagctgcag	240
aaacatgat	aggtagagga	cttttctttt	ggttttgttt	tgttttgttt	tgttttgttt	300
ttggttttac	agagaagaga	tttttattac	aaagaaaaaa	attccagtga	attgtgcaga	360
aatgctgggt	tttacaccat	cctaaagaaa	aactttacaa	gggtgttttg	gagtagaaaa	420
aaggttataa	agttggaatc	ttaaattgta	aaattaacca	ttgagtgtca	aagttctaaa	480
agcagaactc	attttgtgca	atgaacataa	ggaaagacta	ctgtataggt	tttttttttc	540
tccttttaaa	tgaagaaaag	ctttgcttaa	gggttgcata	cttttattgg	agtaaactctg	600
aatgatccta	ctcctttgga	gtaaaaactag	tgcttaccag	tttccaattg	tatttagctt	660
ctggttggaa	tttgaaaaaa	aaagaaaaaa	agaaaaagaa	aacctaataa	aaataggtga	720
aagttccctg	actattcagg	tgaatacnca	aaaanaaaan	nnnnnnaann	nnt	773

<210> 177

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(772)

<223> n = A,T,C or G

<400> 177

acattngacc	tgatacgcca	gcttggtacc	gagctcggat	ccactagtaa	cggccgccag	60
tgtgctggaa	ttcgccctta	gcgtggctgc	ggccgaggta	cagtaggaaa	ataagaataa	120
caacgggcaa	aatcttttta	gaacatttat	gctttatctg	ttttagcttc	taaaacaatc	180
ctgaaggatg	aataattatc	atgagtatag	cagaatttaa	ttttccctgt	tgctccaaaa	240
ttttaatgaa	aactttacgg	ttgagagaaa	taggtaaata	aaaaaacttc	ctaaaattct	300
aaagacaatt	gttgaataaa	atttaagtga	atgagtttgt	gcttcattat	taacttttaa	360
ctttccaata	ggctttatta	aatggaaaac	tgaaatttac	aaagtcttag	agtagaagca	420
tttttatcct	ggctagggat	tctctaagag	aaccagtagc	accaagatgc	actggaacag	480
tgcaacgaga	gagttcatgc	cttanggttt	agaagcatac	aagcaaaggg	aatggtgccc	540
acttcttact	agaaaaattt	cacaggctgg	agtctgggcg	gaggagcctg	ggatgacagt	600
agaagtgtgc	aggaagcact	aagtctagcc	tgtacctgcc	cgggcggncc	ctcgaaggcc	660
gaattctgca	gatatccatc	acactggcgg	cgctcgagc	atgctctana	gggcccatt	720
cgccctatag	tgagtcggat	tacanttnaa	tggccgncgt	tttacaacgt	cc	772

<210> 178

<211> 770

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(770)

<223> n = A,T,C or G

<400> 178

attgggcccc	tnnagcatgc	tcgnccggcc	gccagtgtga	tggatatctg	cagaattcgc	60
ccttcgagcg	gccgcccg	caggtagcag	ctagacttag	tgcttctctg	acacttctac	120
tgatcatcca	ggctcctccg	cccagactcc	agcctgtgaa	atttttctag	taagaagtgg	180
gcaccattcc	ctttgcttgt	atgcttctaa	accctaaggc	atgaactctc	tcgttgact	240
gttcacgtgc	atcttggtgc	tactgggtct	cttagagaat	ccctagccag	gataaaaatg	300

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cttctactct aagactttgt aaatttcagt tttccattta ataaagccta ttggaaagtt 360
aaaagttaaa tatgaagcac aaactcattc acttaaaatt tattcaacaa ttgtctttag 420
aatttttagga agttttttta tttacctatt tctctcaacc gtaaagtttt cattaaaatt 480
ttggagcaac agggaaaatt aaattctgct atactcatga taattattca tcttccanga 540
ttgttttaga agctaaaaca gataaagcat aaatgttcta aaaagatttt gcccgttggg 600
attcttattt tctactgta cctcggccgn gaccacgcta agggcggaatt ccagcacact 660
ggcgccgnt actagtggat ccgagctcgg taccacaact tggcgtaatc atggncatag 720
ctgttcctgn gngaaatngn natncgntna caattncac acatacnann 770

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<210> 179

<211> 502

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(502)

<223> n = A,T,C or G

<400> 179

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cnmnttgacn tgattcgcca acttgggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgcccttag cgtggtcgcg gccgaggtag ctggcccca acttctcgaa 120
taaaatgaaa ctatgattct tggcctcact cactaccatg tgacattgat caaatcactt 180
cacctctcca aacctcagag tctttatctg taagatggaa aaagtaacac ctacttcagg 240
ggctgtcatg aggattaaat aaatgtgcc agcaggtagt aagtatacaa cacaaagcat 300
ctaattgggtc attcatacat ttgcttattt tgcaattatt ggccacctgc caatgttggg 360
cactgttcta ggcacagggg atacagcaag ggcaaacacc taactactgg tggaggggag 420
acgataaaca aatacgtaaa gatttgtgcc aggtagtgat aaaagcaaag aatgactcat 480
ggagaggggtc agctggggag ac 502

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<210> 180

<211> 823

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(823)

<223> n = A,T,C or G

<400> 180

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gggccttnna gcatgctega cggccgccat gtgatggata tctgcagaat tcgccctttc 60
gagcgccgc cggggcaggt actgctgggt ctccccagct gacctctcc atgagtcatt 120
ctttgctttt atcactacct ggcacaaatc tttacgtatt tgtttatcgt ctccctcca 180
ccagtagtta ggtgtttgcc cttgctgtat cccctgtgcc tagaacagtg cccaacattg 240
gcagggtggc aataattgca aaataagcaa atgtatgaat gaaccattag atgctttgtg 300
ttgtatactt actacctgct gggcacattt atttaatcct catgacagcc cctgaagtag 360
gtgttacttt ttccatctta cagataaaga ctctgaggtt tggagaggtg aagtgatttg 420
atcaatgtca catggtagtg agtgaggcca agaatcatag tttcatttta ttcgagaagt 480
tggggggccag gtacctcggc cgcgaccag ctaagggcga attccagcac actggcggcc 540
gttactagtg gatccgagct cggtagcaag cttggcgtaa tcatggatcat agctgtttcc 600
tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggaa gcataaagtg 660
taaagcctgg ggtgcctaatt gagtgagcta actcacatta attgcgttgc gctcactgcc 720
cgcttttcag tcgggaaacc tgctgtgcca gctgcattaa tgaatcggcc aacgcgccgg 780
gaaaagcngn ttgcgtattg gggcgctctt ncgctttctt gcn 823

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<210> 181

<211> 501

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature
 <222> (1)... (501)
 <223> n = A,T,C or G

<400> 181

cantatgacn	tgattcgcca	acttggtacc	ngctcggatc	cctagtaacg	gncgccattg	60
tnctggaatn	cgnccttagc	gtggtcgagg	ccgaggtact	ttcttcnttt	nctnnaattt	120
tccataacct	agtgccngnt	tgatnccctc	acatggntgg	ttcacatncn	cngtacagan	180
gncgggncac	catggganag	ggcagcactc	ntnccctctn	angggatctt	ggcctaangg	240
tgtacnaagg	gagangatgg	antntcttct	gncctcncta	nggcctaggg	aaccacnag	300
canatcccac	nacnccctcn	atntttnagc	caaggagaag	ccccttggtg	acnttnagtt	360
ccaaccatta	tacncaagtgn	gagaatggat	nntcctgggc	ccaaccatta	cagggtgaag	420
atatnaacag	ttaaggaaga	tacagtttng	atgaggcctc	anganggagc	agntnacacc	480
atcatannca	tatgcagga	a				501

<210> 182

<211> 830

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (830)

<223> n = A,T,C or G

<400> 182

ggcccttnga	ngcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tacacgagaa	gtcccgagga	tggtgaagt	ccaacgtctc	120
tgatgcgggtg	gtccagagca	cccgtatcat	ttatggaggc	tctgtgactg	gggcaacctg	180
caaggagctg	gccagccagc	ctgatgtgga	tggttcctt	gtgggtgggtg	cttccctcaa	240
gcccgaattc	gtggacatca	tcaatgccaa	acaatgagcc	ccatccatct	tccctaccct	300
tcctgccaag	ccagggacta	agcagcccag	aagcccagta	actgcccttt	ccctgcatat	360
gcttctgatg	gtgtcatctg	ctccttctctg	tggtctcatc	caaactgtat	cttccctttac	420
tgtttatatc	ttcaccctgt	aatggttggg	accaggccaa	tccttctctc	acttactata	480
atggttgga	ctaaacgtca	ccaaggtggc	ttctccttgg	ctgagagatg	gaaggcgtgg	540
tggtatttgc	tcctgggttc	cctaggccct	agtgagggca	gaagagaaac	catcctctcc	600
cttctttacac	cgtgaggcca	agatcccctc	agaangcang	agtgttggc	cttcccatgg	660
tgcccggtgc	tcctgtgctg	ngtatgtgaa	ccaccccatg	tgagggaata	aacctggcac	720
tangtctttg	aaaaaaanaa	aaacntnaaa	aaaantccct	tcggccgnga	ccacgctaag	780
gnccaattcc	ancacaatgg	gcgnncgtna	ctantggatc	caaccttnt		830

<210> 183

<211> 484

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (484)

<223> n = A,T,C or G

<400> 183

ttgacatgat	acccaacttg	taccgagctc	ggatccacta	gtaacggccg	ccagtgtgct	60
ggaattcgcc	ctttcnagcg	gccgcccggg	caggtagcccc	agcccggccc	actgagtttg	120
ccttctatcc	gggatatccg	ggaacctacc	agcctatggc	cagttacctg	gacgtgtctg	180
tggtgcagac	tctgggtgct	cctggagaac	cgcgacatga	ctccctgttg	cctgtgggca	240
gttaccagtc	ttgggtcttc	gctgggtggc	ggaacagcca	gatgtgttgc	cagggagaac	300
agaaccacc	angtcccttt	ttggaaggca	gcatttgcag	acttcaacgg	gcaaaacctc	360
tgacgcctgc	gccttctctc	gcggncgcag	aaaccatttc	gnactttaan	attgaatctt	420
ctctaaggtt	ganaatttct	ggatcccttg	anaactttta	canntggnct	ttantcctt	480
taaa						484

<210> 184
<211> 824
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (824)
<223> n = A,T,C or G

<400> 184
ggccttagag ctgctcgacg gccgccatgt gatggatatt tgcagaattc gcccttagcg 60
tggctcgcggc cgaggtacca gattggccac tctagggttag aacaccaggt agattcctaa 120
ggttcctgac tccaggccct ggctcccagt tggcatctct ggacctactt ggggtcacag 180
tgaactcact gccctgaagg gaagatgcct ggctggatat gccacctgct gattggagag 240
tccttggacc ttgagtgaac acaggtggta gccaggcagt gatcatcata ggccttgggt 300
gagccccagt gctgtgttgg cttcaggtct gacacagagc tgtcccagtg gtagtcgcca 360
caggggtgct tgtgtcatca tcccttctcc agctccaggg agctcagcac agagacatag 420
tgtccatttg tttgagtga agtaaaagaa gagaacaaga gtctccacct agtaatccag 480
ggaattctcc cagatcttac ccaagacaac caaggcaaga gacacagcat tactgggctg 540
gaggtgcccc ctaatgcagg tatggctgca gtgaacaaag acttagatca caacacccaa 600
atcccttcta atagtgtgaa agccttncca agaaggatgc cggacaaaca agcccaaact 660
gtgaagacta caacaaatac ctaactcttt caatgccag acactgaaga atatcccaa 720
ctttaagacc atccatgaaa acatgacctt accaacaagc taaataagac accagtgacc 780
aatcccagag agatagagat atgtgtcctt tcnnacagag aatt 824

<210> 185
<211> 499
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (499)
<223> n = A,T,C or G

<400> 185
cacttgacnt gatacgccaa cttgtaccga ctccgatcca ctagtaacgg ccgccagtgt 60
gctggaattc gcccttagcg tggctcgcggc cgaggtactt tttctttttt nttntatttt 120
tttttttctg tccccaaag ctttatctgt cttgactttt taaaaaagtt tgggggcaga 180
ttctgaattg gctaaaagac atgcattttt aaaactagca actcttattt ctttccttta 240
aaaatacata gcattaaatc ccaaactcta tttaaagccc tgacagcttg agaaggtcac 300
tactgcattt ataggacctt ctggtgggtc tgctgttacg tttgaagtct gacaatcctt 360
gagaatcttt gcatgcagag gaggtgaagag gtattggatt ttcacagagg aagaacacag 420
ccgcanaatg aagggccagg cttactgagc tgccaatgga gggctcatgg gtgggacatg 480
gnaaagaagg cacctagcc 499

<210> 186
<211> 504
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (504)
<223> n = A,T,C or G

<400> 186
cacttgacnt gatacgccaa cttggtaccg agctcggatc ctagtaacg gccgccagtg 60
tgctggaatt cgcccttagc gtggctcgcg cagaggtacc tcaggagggtc tgcaagtgtg 120
tggttaggta aaaactganc tgtgcaaact cactgtatcc aagctcttct catgagagag 180
cggacaacc tggcaagctt aaaggcaagt gttttcgttc ttttaattaa ataggctgtg 240

acaaaattaa caataaaact agcccagaac caaccagccc ggtaagtgtc gtgcaaactc 300
tgcagtaaca aaagaccatc tgagagacta cacgttggtc tccagtccta gcaagcgctc 360
cattctctnc acattcttat caattgtagc ttgacatggt atctccttgg cacattccat 420
aggaaaccag cctctttctn catctcgtag tcgntccccc ttataccagc catcgctgac 480
acgtttgata gatgaagacg acgt 504

<210> 187
<211> 822
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(822)
<223> n = A,T,C or G

<400> 187
gggcctctna gctgctcgn cggccgcatg tgatggatat ctgcagaatt cgccctttcg 60
agcggccgcc cgggcaggta cgcggggact gggtttttct ccttttgtag ccttttcctt 120
tagtctcctc ttcccgggtg ttggtaaaaa gaggtgaatt gacagcctat gttgaagaca 180
ctgtgctttt ctcaagaagg acatccaaac agcaagtcta cttctttctc tttaacgatg 240
tgctcattat caccaagaag aagagtgaag aaagttacaa cgtcaatgat tattccttaa 300
gagatcagct attggtggaa tcttggtgaca atgaagagct taattcttct ccaggggaaga 360
acagctccac aatgctctat tcaagacaga gctctgccag tcacctcttt actctgacag 420
tccttagtaa ccacgcgaat gagaaagtgg agatgctact aggagctgag acgcagagcg 480
agcagagccc ctggataact gccctgggac acagcagcgg gaagccgcct gcagaccgaa 540
cctcactgac ccaggtggaa atcgttaggt catttactgc taagcagcca gatgaactct 600
ccctgcaggt ggctgacgtc gtcctcatct atcaacgtgt cagcgatggc tggatgagg 660
gggaacgact acgagatgga gaaagaagct ggtttcttat ggaatgtgcc aaggagataa 720
catgtcaagc tacaattgat aagaatgtgg agagaatggg accttgctag gactggagac 780
caacgtgtag tctctcaaan gnccttttgg actgcaagat tg 822

<210> 188
<211> 504
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(504)
<223> n = A,T,C or G

<400> 188
tatgancatg atacgccaac ttggtaccga gctcggatcc actagtaacg gcccgccagt 60
gtgctggaat tcgcccttag cgtggctcgc gccgaggtag caaaaaagta aacattgata 120
atatggcctg acaacaatca gatatgctaa gctctagaag caaaagcaag gtaggattgc 180
ctccaaatgt tgacaggat tagccatacc acagtaacta gatctaattg gagggctaaa 240
tgccctggaga ggcagaaccc taaaggatgc ttagttatag ctccatgctg ccgccgagt 300
gcttgatgct ccattacacc ctccttggtat ccaaccttcc attaaggctg aaggctctag 360
agggcagagt attcaagatg ttagatctgg tccaagccca aattctagag ttaaaagcag 420
aggggttctt agtggctgaa aaaaaacaaa acctgatgac atttgggact ccagttttga 480
ggaaaggctc tgatgatgag gctt 504

<210> 189
<211> 842
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(842)
<223> n = A,T,C or G

<400> 189

nnnnnnnnntt	tttgaaccgg	ccctntnang	catgctcgac	ggccgccatg	tgatggatat	60
ctgcagaatt	cgccctttcg	agcggccgcc	cgggcaggta	cccttctcgc	ttttgccatt	120
agccaaggat	agaagctgca	gtgggtattaa	ttttgatata	atctttcaaa	ccagcttcat	180
gtggcttccc	ttttctttgt	tcaagatgag	ggccaggagg	ggaaacatca	cacctgccct	240
aaaccctggt	cctggaggtc	agcatttgat	ctgttgcaag	ccctctttc	tgtccctct	300
tcctaccctg	cctcccatga	ctttgctcct	cacacttttg	gaaccatgcc	ttccgggggg	360
gcccctctct	tctggccgtc	cttgtctctg	ggccacttgg	agtgtgtgat	aaatcagtca	420
agctgttgaa	gtctcaggag	tctctggtag	cctgcagaag	taagcctcat	catcagagcc	480
tttctcaaaa	actggagtc	caaagtcat	caggttttgt	tttttttcag	ccactaagaa	540
ccctctgct	tttaactcta	gaatttgggc	ttggaccaga	tctaactct	tgaatactct	600
gcctctaga	gccttcagcc	ttaatggaag	gttggatcca	aggagggtgt	aatggagcat	660
caagccactc	ggcggcagca	tggagctata	actaagcatc	ctttagggtt	ctgcctctcc	720
aggcatttag	ccctacatt	agatctagtt	actgtggtat	ggctaatacc	tgtcaacatt	780
tggaggcaat	cctaccttgc	ttttgcttct	agagcttagc	atatctgatg	gttgcaggcc	840
cg						842

<210> 190

<211> 503

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (503)

<223> n = A,T,C or G

<400> 190

actatgacct	gattacgcca	agcttggtac	cgagctcgga	tccctagtaa	cgcccgccag	60
tgtgctggaa	ttcgcccttt	cgagcggccg	cccgggcagg	taccatgctg	acttcttgggt	120
atcttttaag	gcctaatttt	cccttccttg	agattactgt	agtgtgttcc	agctaatttc	180
tatttggaag	cgagttggaa	cagctgaaaa	ctagggtatta	ttgaaggcaa	agcagcctca	240
cgtcagtttt	ttatcagctc	atttggggaag	tttttttttt	ttttttttta	ttaattagaa	300
agtaggctgg	acacgggtgg	tcatgcctat	aatcccagca	cttggggagg	ccgaggatct	360
cctctctggg	ggatcacttg	agggcaggag	ttaagagacc	atcctggcca	acatgatgaa	420
accctgtctc	tactaaaaat	acaaaaagta	hctgggcgtg	gtggcatact	cttacaatcc	480
cagctacttg	ggaggctgag	gca				503

<210> 191

<211> 829

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (829)

<223> n = A,T,C or G

<400> 191

gggcctctga	gcatgctcga	cggccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggctcgc	gccgaggtag	tttttttttt	tcttttttta	catctgattt	taatgcttcg	120
tttaactcaa	aaggaactgg	tagagttcag	aagggtgagct	gttggttttt	taaacctctt	180
cccaggaagg	ggacattgac	acttgaattt	ttgtcacctt	tttctcatt	agaaggaaag	240
tagaaagcct	tactgtagga	tttttaaaaa	aaaatccatc	tcaccccata	ttggtcttaa	300
ataagtatag	actaattaac	ctaagctacc	tttaacaacg	tagaatttag	atgggttcac	360
atatgtgaga	aaaacctgaa	tataggacag	gggtcctact	tttttcccca	cctctgtcgc	420
ccaggctaga	gtatagtggg	gtgatcttgg	cccactgcaa	cctctgcttc	ctagggtcaa	480
gtgattctcc	tgccctcagcc	tcccaagtag	ctgggattgt	aagagtatgc	caccacgccc	540
agctactttt	tgtattttta	gtagagacag	ggtttcatca	tgttggccag	gatggtctct	600
taactcctgc	cctcaagtga	tccaccagag	aggagatcct	cggcctnccc	aagtgtctgg	660
attataggca	tgagccaccg	tgtccagcct	actttctaat	taattaaaaa	aaaaaaaaaa	720

aaactttcca aatgagctga taaaaaactg acgtgaggct gctttgcctt caataatacc 780
tagttttcag ctgtccaact cgtttccaaa tagaaattaa gctgggang 829

<210> 192
<211> 503
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (503)
<223> n = A,T,C or G

<400> 192
ntatgaccat gattacgcca agcttggtac ccgagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct ttcgagcggc cgcccgggca ggtactgcct ttgggcttct 120
tctctctcct gttttctcct ctggaattct ttactgtttt aatacattgt tcttctggct 180
gaggctggtc aaagctacac tgatcttcaa ataaaggctc gtcaatgcta cactgttctt 240
caagcaacgg ctggtgaact tgttctgaca aaggatggc gacttttctt gcttgcttcc 300
tatgtcttct ctcttcagct aaatagagat gtttcagatt atctgggtat cgatctgtga 360
attgagattc cagtgcggtt tgagccttct tttccttccg tagcaatttc ttgtaacttt 420
gctgtatttt cagttttctt cgaaaagcaa agccttgctc ctgcgcaacg ctcccacga 480
agcttgcggg tggttaggcc gca 503

<210> 193
<211> 834
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (834)
<223> n = A,T,C or G

<400> 193
ancggctctc tagagctgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60
tagcgtgggc gcggcncgag gtacaattca ttatgtgttt cattaattac ctttattaaa 120
aacaacacaa ttatattaca atagggacaa aaaatgttta agcaaatgaa aacgaaacca 180
tgacataccc aaactcagga ggaggcaaca aaggcagtc taaagggaag cttacagctc 240
cagatgctta aattaaaaag aagaaagatc tcaaaccat gctaaaggga agcttacagc 300
tacagatcct taaattaaaa agaagaaaga tctcaaacc atgctaaagg gaagcttaca 360
gctgcagatg cttaaattaa aaagaagaaa gatctgaaac ccttgctaaa ggaagctta 420
tagctgcagg tgcttaaatt aaaaagaaga aagatctcaa atcaataacc taacattaca 480
cctgaagggg gggaaaaaaa ctaatgacaa accaagcaaa aggaagaaaa taacagatta 540
gagcagagat aagcagaata agaccagaaa aaaggaaaaa aacactgagt ttgttttttt 600
aaagatcaat aaaaatttta aaactcacag ctatattaag aaaaagaga aatctcaaat 660
actaaatca taagtaaaag angtgacagt acaggaataa gaatgtgaga cagaagacat 720
ggcggcctac caccgcaag ccttcgtggg gagcgttcgc ganggacaag gctttgcttt 780
tcgaagaaaa ctgaaaatnc cgcaaagttc cagaaattgt tcngaagaaa agaa 834

<210> 194
<211> 502
<212> DNA
<213> Homo Sapien

<400> 194
cacttgacct gattcgccaa gcttggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgcccttct gageggccgc ccgggcagga cgetgaggcc tgggagtctc 120
ttgactccac tacttaattc cgtttagtga gaaaccttct aattttcttt tattagaagg 180
gccagcttac tgttggtggc aaaattgcc aacataagtt atagaaagtt ggccaatttc 240
accccathtt ctgtggtttg ggctccacat tgcaatgttc aatgccacgt gctgctgaca 300
ccgaccggag tacctcggcc gcgaccacgc taaggcgcaa ttctgcagat atccatcaca 360

ctggcgccg	ctcgagcatg	catctagagg	gcccaattcg	ccctatagtg	agtcgtatta	420
caattcactg	gccgtcgttt	tacaacgtcg	tgactgggaa	aaccctggcg	ttaccaact	480
taatcgctt	gcagcacatc	cc				502

<210> 195

<211> 848

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(848)

<223> n = A,T,C or G

<400> 195

gnnnnnnntt	tnnaatgggc	ctctnnagca	tgtctgagcg	gccgccatgt	gatggatata	60
tgcagaattc	gcccttagcg	tggtcgcggc	cgaggctactc	cggtcggtgt	cagcagcacg	120
tggcattgaa	cattgcaatg	tggagcccaa	accacagaaa	atggggtgaa	attggccaac	180
tttctattaa	cttatgttgg	caattttgcc	accaacagta	agctggccct	tctaataaaa	240
gaaaattgaa	aggtttctca	ctaaacggaa	ttaagtagtg	gagtcaagag	actcccaggc	300
ctcagcgctc	tgcccgggcg	gccgctcgaa	agggcggaatt	ccagcacact	ggcgggcggt	360
actagtggat	ccgagctcgg	taccaagctt	ggcgtaataca	tggtcatagc	tgtttctctgt	420
gtgaaattgt	tatccgctca	caattccaca	caacatacga	gccggaagca	taaagtgtaa	480
agcctggggg	gcctaattgag	tgagctaact	cacattaatt	gcgttgcgct	cactgcccgc	540
tttccagtcg	ggaaacctgt	cgtgccagct	gcattaatga	atcgccaac	gcgcggggag	600
aggcggtttg	cgtattgggc	gctcttcgcg	ttctctcgctc	actgactcgc	tgcgctcggt	660
cgttcgctg	cggcgagcgg	tatcagctca	ctcaaaggcg	gtaataccgg	tattcacaga	720
attcagggga	taacgcagga	aagaacatgt	gagcaaaagg	ncagccaaag	gccaggaacc	780
cgtnaaaagg	ccgcgttgct	ggcgttnttc	cataggctcc	gcccccttga	cgagcatnac	840
aaaaatct						848

<210> 196

<211> 511

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(511)

<223> n = A,T,C or G

<400> 196

canntatgac	ctgattacgc	caagcttggt	accgagctcg	gatccactag	taacggccgc	60
cagtgtgctg	gaattcgccc	ttagcgtggt	cgcgcccgag	gtactttttt	tttttttttt	120
tttttttttt	ttttagggtt	ataaaagccc	ttttataaag	ccatttttaa	acaaaacaaa	180
aaaaaagttt	acaaaagaaa	aaaagatnca	gaaaaagaat	aacttgcttc	atatgtccca	240
aaaagagaaa	aaaataaagg	ggacaatgcc	aacatgctca	acaataaagg	cttctttttc	300
ttattttttt	aatacaaaat	ncaagcaaag	gatacacata	cttaaaacag	agctcaggag	360
canacacgca	ntcctggaaa	cccttcaata	aancaaaagc	aggagtttgn	tttttctttg	420
tctatgcana	tacatacaga	gactgggata	tgtaaaaatt	aagtatnaca	aaagaccatt	480
acacgattct	accaatgcac	gttgcatctn	g			511

<210> 197

<211> 816

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(816)

<223> n = A,T,C or G

<400> 197

gggcctctag	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcctttt	60
cgagcgcccg	cccgggcagg	tactaaggaa	gttaaagttt	gaatgtaacc	actttattta	120
aaagggtttt	ttctttaatt	taaatgaaat	ggggttgaag	tgaacatgat	tttgttgacc	180
atgttcgtga	attacagatg	caacatgcat	tggtagaatc	gtgtgatggg	cttttgtgat	240
acttaatttt	tacatatccc	agtctctgta	tgtatctgca	tagacaaaga	aaaaaacaac	300
tcctgctttg	cttttattga	agggtttcca	ggactgctgt	tctgctcctg	agctctgttt	360
taagtatgtg	tatcctttgc	ttgtattttg	tattaaaaaa	ataagaaaaa	gaagccttta	420
ttgttgagca	tgttggcatt	gtccccctta	tttttttctc	tttttgggac	atatgaagca	480
agttattctt	tttctgtatc	tttttttctt	ttgtaaaact	tttttttggt	ttgtttaaaa	540
atggctttat	aaaagggttt	ttataaccct	aaaaaaaaaa	aannnnnnna	aaaaaaaaaa	600
gtcctcgccg	gcgaccacgc	taagggcgaa	ttccagcaca	ctggcggncg	ttactagtgg	660
atccgagctc	ggaccaagct	tggcgtaatc	atggncatag	ctgttcctgt	gtgaaatggt	720
atccgcctac	aattcccaca	catacaaccc	ggagcataaa	gtgtaaacct	gggggtgccta	780
atgagtgagc	tactcaataa	ttgcgttgcg	ctcang			816

<210> 198

<211> 498

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 198

tgattcgcca	agcttggtag	cgagctcgga	tccactagta	acggcccgcc	agtgtgctgg	60
aattcgccct	tcgagcggnc	gnccgggcag	gtacaattca	gagcagggtg	ccatagaaac	120
aactaggntt	gaaaaaactg	taagacaatt	cacagttgaa	atcaaaccac	cactgtgaat	180
gtgttaaata	cttgccatat	aacaacactt	taacattgat	cttgctaaat	aaggctatga	240
ttcataagat	gcatggattt	ccaaagctgn	ttaacattct	tataaattaa	ttcacaggat	300
tcaaatagtt	gcttttttag	ttcaactggg	tatttagcaaa	aatnatacaa	aatgatcccc	360
gtgcaagcac	aaatttacct	tccttctaaa	taaaacatga	cagattatat	tacaacttga	420
tagcctctct	tttaaaaagt	ctgtgacatt	attaaagagg	tgacggaatg	cttgntttgc	480
aaaccccaac	acatcttt					498

<210> 199

<211> 837

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(837)

<223> n = A,T,C or G

<400> 199

nnnnnnntnn	cantgggcct	ctagagctgc	tcgacggccg	ccatgtgatg	gatatctgca	60
gaattcgccc	ttagcctggg	cgcgcccgag	gtaccttgag	atctgagcaa	ctgtgttaat	120
gaagtaatag	caatggtcca	cagtgaagaa	tgtgttgggg	tttgcaaaac	aagcattccg	180
tcacctcttt	aataatgtca	cagacttttt	aaaagagagg	ctatcaagtt	gtaataaat	240
ctgtcatggt	ttattttagg	aggaaggtaa	atttgtgctt	gcacggggat	cattttgtat	300
tatttttgc	aatacccagt	tgaagctaaa	aagcaactat	ttgaatcctg	tgaattaatt	360
tataagaatg	ttaaacagct	ttggaaatac	atgcatctta	tgaatcatag	ccttatttag	420
caagatcaat	gttaaagtgt	tgttatatgg	caagtattta	acacattcac	agtgtttggt	480
tgatttcaac	tgtgaattgt	cttacagttt	tttcaaacct	agttgtttct	atggacacct	540
gctctgaatt	gtacctgccc	gggcggccgc	tcgaagggcg	aattccagca	cactggcggc	600
cgttactagt	ggatccgagc	tcggtaccaa	gcttggcgta	atcatgggtc	tagctgnntc	660
ctgtgtgaaa	ttggtatccc	gtcaccaatt	ccacacaaca	tacgagccgg	aagcataaag	720
tgtaaagcct	ggggtgccta	atgagtgagc	taactccatt	aattgcgttg	cgctcactgg	780
cccgccttnc	agtcnggaaa	cctgtctgcc	anctgcatta	atgaatcggc	caccccg	837

<210> 200
 <211> 506
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (506)
 <223> n = A,T,C or G

<400> 200
 nnnnttgacc tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60
 agtgtgctgg aattcgccct tagcgtgggc gcggccgagg tactgcatcc ataatttacc 120
 gccatgtgca acagctttgc gttttctaag gcacaatttt taatgaaatg atgtgtagat 180
 ttcaatctaa taacagctca tccaaatgac aaatatgggc gaaatccctc cagtggctga 240
 ggaaatttct gcacctatat ggaaccacaca tgcaaagaac ccatctagca tgtaataaat 300
 aatcgctagc cactactcaat aagacacgga aaaattattg cttacataac agaaaaacat 360
 ctacttgacc cccttttatg actacatcaa tctattagga gtgtatccat agtctacatt 420
 cacaaaatgt catcttgact tatttgccat tgatttaagg cagaataaat agtccccctt 480
 tccccagtct taacaacaaa aaacaa 506

<210> 201
 <211> 864
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (864)
 <223> n = A,T,C or G

<400> 201
 ccnntanagc atgctcgacg gccgcccggg caggtagcctt ggaagttatg tcattaatat 60
 aggctgggtc atcaaataaa gcaaaacctt gcaatatcag ctatatttac actccgggac 120
 gttgccc aaa ggtaggaaga aagcaggggg aaatatattca gtcattcattt ccaaagtcatt 180
 tatcaaaatc tgtgaggaag tttaattctt caaagagtca atgtcagaca tcaggcctct 240
 gttgcctgct tctctcgagg cactagatta ggagtccttca ataagagact taacatgagg 300
 tatatggaag atgaggcacc gagataagtt catcattagg tgtgagcact gctcaccctt 360
 gctggcaagt tctccttaag ggcctgaagc acaggtgtcc aaagaaaagc gttaagtcca 420
 tcttaataga atctatgtgg tatatgatgt ggtcagcccc tggctgtgga tcagcaagaa 480
 cctacagcac agattatgcc ctgcccactt caatgaatac ctactctcct ncattctcca 540
 tcaactttttt gctatcaaga ctccggacct tgcccatgga gaagtttaga gaggaactct 600
 tgtggagagc tgggttaattt tctgccctgt gcgacaagtt tcaacttggc caagaaangg 660
 agtcaagtta ttaaaaagca tcacaatgta gaactctcca ggctggggtt tttggntttt 720
 tnggtgggtn aanactgggg gnaaaagggg ggacctattt aaattccngg cctttaaaat 780
 caaatgggcc aaaattaagt tcaaggaatg gaccattttt nggggnaaat ggttngaacc 840
 ttntngggan ttcccnctt ccct 864

<210> 202
 <211> 505
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (505)
 <223> n = A,T,C or G

<400> 202
 gnnntnanacn nttactaat antganttag tnccgactcg atccctctna ctncantnan 60
 ancngntngaa ttgcccttnn tagcggccnt ccngncaggt acaaccagtt tggaaaacag 120

tntcacagtt	tttttaaaaa	ttacatatac	aaccancaac	tgaccagcc	atttcactcc	180
taggtattta	cccaagatna	actgaagtgt	agatacaagc	anagacttgn	gcacaagtgt	240
tcatggtaag	ctttactngc	antagctcca	aactanggac	aactcaaata	gccaacangg	300
aaatggacaa	attatgttac	tttcatacag	tggaaatattc	tcttggtgata	aaaataantg	360
aacanttgat	acatggatga	atctcaaaat	aattatgctg	agtaaaagaa	gccagacaaa	420
atgtacagtg	catacagcta	ttcatgtggg	tgccagctcc	atccccagt	gacctcttca	480
tacggncaga	gggtggcatg	gcanc				505

<210> 203

<211> 819

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (819)

<223> n = A,T,C or G

<400> 203

ggcctcngca	gcattgctga	ncggccgcca	tgtgatggat	atctgcagaa	ttcgccctta	60
gcgtgggtcg	ggccgaggtg	cgcgggagag	caggaccgga	gcgcgggcca	agctggagat	120
ggatgatgct	gaccctgagg	aaagaaaacta	tgacaacatg	ctgaaaatgc	tgctcagatct	180
gaataaggac	ttggaaaagc	tattagaaga	gatggagaaa	atctcagtgc	aggcgacctg	240
gatggcctat	gacatgggtg	tgatgcgcac	caaccctacg	ctggccgatt	ccatgcgtcg	300
gctggaggat	gccttcgtca	actgcaagga	ggagatggag	aagaactggc	aagagctgct	360
gcatgagacc	aagcaaaggc	tgtaggcccc	actggcccac	cacagctgcc	atgccaccct	420
ctgcccgtat	gaagaggtca	ctgggggatg	gagctggcac	ccacatgaat	agctgtatgc	480
actgtacatt	ttgtctggct	tcttttactc	agcataatta	ttttgagatt	catccatgta	540
tcaattgttc	acttattttt	atcacaagag	aatattccac	tgtatgaaag	taacataatt	600
tgtccatttc	cctgttggct	atttgagttg	tccctagttt	ggagctattg	cgagtaaagc	660
taccatgaac	atttgtgcac	aagtccttgc	ttgtatctac	acttcagttt	atcttgggta	720
aatacctang	agtgaaatgg	cttgggtcaa	tntgttgggt	ggatatgtaa	ttttttaaaa	780
aaaactgnga	tactgttttc	caaactgggt	tgtccctct			819

<210> 204

<211> 840

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (840)

<223> n = A,T,C or G

<400> 204

gnnnnntttt	nnctnntgga	accogttttg	nnaagctgct	cgacggccgc	catgtgatgg	60
atatctgcag	aattcgccct	tagcgtgggtc	gcggccgagg	taccttnaga	tctgagcaac	120
tgtgttaatg	aagtaatagc	aatgggtccac	agtgaaagat	gtgttggggg	ttgcaaaaaca	180
agcattccgt	cacctcttta	ataatgtcac	agactttttt	aaaagagagg	ctatcaagtt	240
gtaataataat	ctgtcatggt	ttatttagga	aggaaggtaa	atgtgtgctt	gcacggggat	300
catttttgat	tatttttgct	aatacccagt	tgaagctaaa	aagcaactat	tgaatcctg	360
tgaattaatt	tataagaatg	ttaaacagct	ttggaaatac	atgcatctta	tgaatcatag	420
ccttatttag	caagatcaat	gttaaagtgt	tgttatatgg	caagtattta	acacattcac	480
agtgtttgtt	tgatttcaac	tgtgaattgt	cttacagttt	tttcaaacct	agttgtttct	540
atggacacct	gctctgaatt	gtacccctca	gtcaccagca	aaagcatttc	cacccttttc	600
aacccccaat	cagaccactg	cattcagtg	tattggagga	ctttcatcac	agcttccagt	660
aggtgggtct	tggcacaggc	agnctgactg	gtatangaac	tgggtgctct	ggactccctg	720
cagtgaataa	cgaccctttt	gtacctgccc	gggcggccgc	taagggcgaa	ttccacacac	780
tggccggccg	ttactagtng	gatecnaact	cgggtccaaan	cttggcgtat	tcatggctnt	840

<210> 205

<211> 497

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (497)

<223> n = A,T,C or G

<400> 205

nnnnttgacc	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacatttact	ataaaaagctg	120
ttgcatttta	gacaacttgt	tgtttttatt	ttttactggt	tctcagaggc	attttagaat	180
aaatacttta	aatgaaagtt	agtataaccg	atatagaaca	ctggcccacc	cagagcagta	240
acatcttttg	gacggactca	catatgaggt	ggatcatttc	agtttggtta	atcttacact	300
gtgtatagat	aactataata	tgtattgcat	taatcacact	acatagaaag	gaaatgtcat	360
ggaagtgcgc	tagtgaaaaa	caaaaagtta	cccattatgt	ttattaaaga	gtagggacta	420
gcttttggag	tatgagaaaa	aaaatcagat	atacttcctc	aggaacaata	aatcactcac	480
ttgcctcacc	tgttttt					497

<210> 206

<211> 820

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (820)

<223> n = A,T,C or G

<400> 206

gggcctntag	aagcatgctc	gagcggccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
tttcgagcgg	ccgcccgggc	aggtacatgt	attgaagcta	gaatcgagtc	aagaaaaata	120
aagccccatt	ctccaactgc	aaaatgtgct	ttcccataat	gaacactagt	caccagcaca	180
gaataatctc	caacattttc	taaattctaa	ttgccaaactg	tttctatcta	tatttgattt	240
atatttcatt	tggagtctgt	tacatggcag	cttaggcaga	ctagatcttg	ttttttccaa	300
tgcagcataa	tgagtatgat	ctatttcttt	tcaaataatc	tttgagatcc	caggaaaaaa	360
aatgctctgc	tccattgagc	tataatgtaa	atgtgtttgt	ttaaaaaaca	ggtgaggcaa	420
gtgagtgatt	tattgttcct	gaggaagtat	atctgatttt	ttttctcata	ctccaaaagc	480
tagtccctac	tctttaataa	aaataatggg	taactttttg	tttttacta	gcgaacttcc	540
atgacatttc	ctttctatgt	agtgtgatta	atgcaataca	tattatagtt	atctatacac	600
agtgtgaagat	ttaacaaact	gaaatgatcc	acctcatatg	tgagtccgtc	caaaagatgt	660
tactgctctg	gggtggccag	tggtctatat	cgggtatact	aactttcatt	taaagtattt	720
attctaaaat	gcctctgaga	aacagtaaaa	ataaaaacca	caagttgcta	aaatgcaaca	780
gcttttatag	taaatgtcct	tgggcgcgca	ccacgcttag			820

<210> 207

<211> 496

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (496)

<223> n = A,T,C or G

<400> 207

cnnttgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	agcgtggctg	cgccccgagg	tacaaaagac	aaaatcagag	120
ttcaatttca	gcagcaagac	ttatcaagaa	tttaatcact	atttgacatc	aatgggtggg	180
tgctctgga	cgcccaaacc	ctttgggaaa	ggaatatata	ttgaccctga	aatcctagaa	240
aaaactggag	tggtgaata	taaaaacagt	ttaaatgtag	tccatcatcc	ttctttcttg	300
agttacgctg	tttcttttt	gctacaggaa	agcccagaag	aaaggacagt	aaatgtgagc	360

tctattcngg gaaagaaatg gagctggtat ttggactatt tattttcaca nggggtacaa 420
ggcttgaac tttttataag aagtagtggt catcattctt ncattcccag agcagaaggc 480
ataaactgca caatca 496

<210> 208
<211> 810
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (810)
<223> n = A,T,C or G

<400> 208
gcatgctcga cggcccgcga gtgtgatgga tatctgcaga aattcgcctt ttcgagcggc 60
cgcccgggca ggtactcctt gaggatggca gtctgtcagt gaaatgaaaa tgggaactca 120
agatgagcca ctttgctcta gcaatgagga gtgagtttag tccagtgtgt tcagtttatg 180
tcaacattca tttaatattg attgttgca tttatgccct ctgctctggg aatggaagaa 240
tgatgaacac tacttcttat aaaaagtttc aagccttgta acccctgtga aaataaatag 300
tccaaatacc agctccattt ctttccccga atagagctca catttactgt cttttcttct 360
gggcttttct gtagcaaaaa ggaaacagcg taactcaaga aagaaggatg atggactaca 420
tttaaactgt ttttatattc agccactcca gttttttcta ggatttcagg gtcaatatat 480
attcctttcc caaaggggtt ggacgtccac aggcaaccaa ccattgatgt caaatagtga 540
ttaaattctt gataagtctt gctgctgaaa ttgaactctg attttgtctt ttgtacctcg 600
gccgcgacca cgctaagggc gaattccagc acactggcgg ccggtactag tggatccgag 660
ctcgggtccaa gcttggcgta atcatgggca tagctgtttc ctgggtgtgaa attgntatcc 720
gctcacaatt ccacacaaca tacgaaccgg aagcattaag tgtaaagcct ggggtgccta 780
atgagtgcga taacttacat taattgcgnt 810

<210> 209
<211> 495
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (495)
<223> n = A,T,C or G

<400> 209
cnnttgacct gattacgcca agcttggtac cgagctcgga tccctagtaa cggccgcccag 60
tgtgctggaa ttgcgcctta gcgtggctgc ggccgaggta caactctcca gggcacaata 120
cgtttacagc tgcccttctt tcacatactt ttctaattca gaactactca caattctaag 180
caaattccca ttcacgaagt ctgtccataa tgcgaccttc tcttttttta acatatacat 240
cttaaaaaac aaatatataa aaaattctta ttttgctgga atgctttcaa tttttcacat 300
tttacatgat catcacattt atttcttata ttgaaaggca tggtttctgt tgacatgtcg 360
tgcaaagcca aaaaaaaaaa anaaaaaaaaa aagggctgga ttgcttttca attggtctaa 420
cacttttctt tgtctaggct ttggatttta aagttcatga cagccccacc accagtagaa 480
acccaaggc ttgca 495

<210> 210
<211> 820
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (820)
<223> n = A,T,C or G

<400> 210

gggcctcaga	gctgctcgan	cgcccgccat	gtgatggata	tctgcagaat	tgcgccttct	60
gagcggccgc	ccgggcaggt	acccacgttt	tgctccacac	tccttgaccg	caggggctcg	120
gacacaaacc	cctgtcacca	ggagagtcag	tcagcactac	ttgggagggc	taaagggaaa	180
tttgaaata	aaattccaaa	gtttggagta	aaaaaattca	agtgttgatt	ttatattctt	240
tccctttctg	acacagccta	aagcgtaggg	ggaacatgtg	tttatctgtg	ggagataaac	300
aagatggagt	cccaaagact	ttaacaaaat	atttttttaa	aaatccacta	gaatagaaaa	360
tacattattt	agatatactt	tatgctgaga	gtgagtatat	atgcttgctc	tattttaaact	420
tgtgagaaaa	agtggatatcc	cttgatacat	ttagaaatat	gggggctatc	ttgtttcatt	480
gtgggggtgg	ggcagaagga	gaataaatgc	aggatgaccc	tgttgaagga	atcttancat	540
ggccaacagg	ggacgtttcc	agtcgattac	caggaaatgc	aagccttggg	gtttctactg	600
gtggtggggc	tgcatgaac	tttaaaatcc	aaagcctaga	caaggaaaag	tgtagacca	660
attgaaaagc	aatccagccc	tttttttttt	nnnttttttt	tttggctttg	cacgacatgt	720
caacagaaac	catgcctttc	aatntaagga	aataaatgtg	atgatcatgt	aaaatgtgaa	780
aaattgaaag	cattncacca	aataaggaat	tttttatttn			820

<210> 211

<211> 499

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (499)

<223> n = A,T,C or G

<400> 211

canttactg	attacgcaa	gcttggtacc	gagctcggat	ccactagtaa	cgcccgccag	60
tgtgctggaa	ttcgccctta	gcgtggctgc	ggcccgaggt	acaactctcc	agggcacaaat	120
acgtttacag	ctgcctttcc	ttcacatact	tttctaattc	agaactactc	acaattctaa	180
gcaaattccc	attcacgaag	tctgtccata	atgcgacctt	ctcttttttt	aacatataca	240
tcttaaaaaa	caaatatata	aaaaattctt	attttgcctg	aatgctttca	atttttcaca	300
ttttacatga	tcatacatt	tatttcttat	attgaaaggc	atggtttctg	ttgacatgtc	360
gtgcaaagcc	aaaaaaaaaa	aaaaaaaaaa	aagggctgga	ttgcttttca	atnggggtcta	420
acacttttcc	ttgtctaggc	tttggtattt	aaagttcatg	acagccccac	caccagtaga	480
aaccccaagg	cttgcattt					499

<210> 212

<211> 821

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (821)

<223> n = A,T,C or G

<400> 212

gggcccntan	agcatgctcg	agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gcccgggcag	gtacccacgt	tttgcctcac	actccttgac	cgcaggggct	120
cggacacaaa	cccctgtcac	caggagagtc	agtcagcact	acttgggagg	gctaaagggg	180
aattttggaaa	taaaattcca	aagtttgag	taaaaaaatt	caagtgttga	ttttatattc	240
tttccctttc	tgacacagcc	taaagcgtag	ggggaacatg	tgtttatctg	tgggagataa	300
acaagatgga	gtcccaaaga	ctttaacaaa	atattttttt	aaaaatccac	tagaatagaa	360
aatacattat	ttagatatac	tttatgctga	gagtgaat	atatgcttgt	cctattttaa	420
cttgtgagaa	aaagtgttat	cccttgatac	atttagaaat	atgggggcta	tcttgtttca	480
ttgtgggggt	ggggcagaag	gagaataaat	gcaggatgac	cctgttgaag	gaatcttagc	540
atggccaaca	ggggacgttt	ccagtcgatt	accaggaaat	gcaagccttg	gggtttctac	600
tggtggtggg	gctgtcatga	actttaaaat	ccaaagccta	gacaaggaaa	agtgttagac	660
caattgaaaa	gcaatccagc	cctttttttt	tttttttttt	ttggctttgc	acgacattgt	720
taacagaaac	catgcctttc	aatattagaa	ataaatgtga	tgatcatgtt	aaatgtgaaa	780
aattggaagc	cttcagcaaa	ataagaattt	ttattntttt	n		821

<210> 213
 <211> 497
 <212> DNA
 <213> Homo Sapien

<400> 213
 acttgacctg attacgcca gcttggtacc gagctcggat ccactagtaa cggccgccag 60
 tgtgctggaa ttccgacctta gcgtgggtcgc ggccgaggta caaaacaata gtctaaacta 120
 acacgaactg ttacctgggtc tattaagga tacacggat ccactaaaca gacagatcct 180
 tatttccctg cttgatgttg caaagccctt ggcaaccagg ggcaaaggtc actgggggtt 240
 gactaactgg ggctgagtg cagctatgac tgtccttcag atttttgagt tgttttgaa 300
 attaaaagct tctaaaagtt gcatcaacat cctcctaagc ccccatagga ttgtaacacc 360
 accacaaaag gccaccaaca ctttttaaac aaagtgaata ctgtctgaca ccaatcatct 420
 tgaaaactcc atggcaagtg cattagctat gatttcatca cttacaggta gagaagctta 480
 ctgtctactg gtgtggg 497

<210> 214
 <211> 817
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

<400> 214
 ggccttanag ctgctcgneg gccgccatgt gatggatata tgcagaattc gccctttcga 60
 gcggccgccc gggcaggtag tctcagtcac atgcagaaat actttttttt taattaatag 120
 ttacaggctt gttggtccag tgggatttgg gtagggggag aaagatacct tctaaaatgg 180
 atcaatagaa ccaaaataat acagcatgtt ctataaccac aaggaaatca aatgatcctg 240
 tcatgattcc agttagtcac aaccatgtta gcagtgtctaa atgcatttta gaaatgggtga 300
 cttctgtggt ttctctagca tttgtctcta acaaagggtg aaataattac tcatggccct 360
 ctctgccatt gtctttcatt ttttcacagt gaaatttagac ccctttactt caccattctg 420
 ccactgcaaa ttaagtataa agaaaatagc aagagtgtcc acaccagtag acagtaagct 480
 tctctacctg taagtgtatga aatcatagct aatgcacttg ccatggagtt ttcaagatga 540
 ttggtgtcag acagttttca ctttgtttta aaagtgttgg tggccttttg tgggtggtgt 600
 acaatcctat gggggcttan gaggatgttg atgcaacttt tagaagcttt taatttcaaa 660
 aacaactcaa aaatctgaag gacagtcata gctgccactc agccccagtt agtcaaacc 720
 cagtgaactt tgcccctggg tgccaagggc tttgcaacat caagcangga aataaggatc 780
 tgnctgttag tgggataacc ggtatccttt aatagac 817

<210> 215
 <211> 495
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(495)
 <223> n = A,T,C or G

<400> 215
 acttgacctg attacgcca gcttggtacc gagctcggat ccactagtaa cggccgccag 60
 tgtgctggaa ttccgacctta gcgtgggtcgc gccgaggtag catgctgact tcttgggtatc 120
 ttttaaggcc taattttccc ttcccttgaga ttactgtagt gtgttccagc taatttctat 180
 ttggaaacga gttggaacag ctgaaaacta ggtattattg aaggcaaagc agcctcacgt 240
 cagtttttta tcagctcatt tgggaagttt tttttttttt aattagaaag 300
 taggctgggc acggtggctc atgcctataa tcccagcact tggggaggcc gaggatctcc 360
 tctctggttg atcacttgag ggcaggagtt aagagaccat cctggccaac atgatgaaac 420
 cctgtctcta ctaaaaatac aaaaagtagc tgggcgtggg ggcatactct tacaatccca 480
 gctacttggg aggcn 495

<210> 216
 <211> 823
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(823)
 <223> n = A,T,C or G

<400> 216
 gggcctcaga gcatgctcgn cggccgccag tgtgatggat atctgcagaa ttcgcccttt 60
 cgagcggccg cccggggcagg tacttttttt tcttttttta catctgattt taatgcttcg 120
 ttaacttcaa aaggaactgg tagagttcag aaggtgagct gttgtttttc taaacctctt 180
 cccaggaagg ggacattgac acttgaattt ttgtcacctt tttcctcatt agaaggaaaag 240
 tagaaagcct tactgttaga tttttaaaaa aaaatccatc tcaccccata ttggtcttaa 300
 ataagtatag actaattaac ctaagctacc ttttaacaac tagaatttag atgggttcat 360
 atatgtgaga aaaactgaa tataggacag gggcctact tttttcccca cctctgtcgc 420
 ccaggctaga gtatagtggg gtgatcttgg cccactgcaa cctctgcttc ctagggtcaa 480
 gtgattctcc tgcctcagcc tcccaagtag ctgggattgt aagagtatgc caccacgccc 540
 agctactttt tgtattttta gtagagacag ggtttcatca tgttggccag gatggtctct 600
 taactcctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgtctggg 660
 attataggca tgagccaccc gtgcccagcc tactttctaa ttaattaaaa aaaaaaaaaa 720
 aaaaacttnc caaatgagct gatnaaaaac tgacgtgang ctgctttgcc ttcaataata 780
 cctagttttc actggtccaa ctgctttcca aatagaaatt acg 823

<210> 217
 <211> 827
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(827)
 <223> n = A,T,C or G

<400> 217
 nnnnnnnggc ctntnnagca tgctcgacgg ccgccatgtg atggatatct gcagaattcg 60
 ccccttccgag cggccgcccg ggcaggact gtatcattgg cagatgtgac gtcaccgaca 120
 accagagtga agtggcggac aaaactgagg attacctgtg gctgaagttg aaccaagtgt 180
 gttttgacga cgatggcacc agctccccac aagacaggct cactctctca cagttccaga 240
 agcagttgtt ggaagactat ggcgagtccc actttacggg gaaccagcaa ccttccctct 300
 acttccaagt cctgttccctg acagcgcagt ttgaagcagc agttgccttt cttttccgca 360
 tggagcggct gcgctgccat gctgtccatg tagcactggg gctgtttgag ctgaagctgc 420
 ttttaaagtc ctctggacag agtgtccagc tctcagcca cgagcctggg gaccctcctt 480
 gcttgccggc gctgaacttc gtgcggctcc tcatgtgtga cctcggccgc gaccacgcta 540
 agggcgaatt ccagcacact ggcggccggt actagtggat ccgagctcgg taccaagctt 600
 ggcgtaataca tgggtcatagc tgtttccctgt gtgaaattgt tatccgctca caattccaca 660
 caacatacga gccggaagca taaagtgtaa agcctggggg gcctaataag tgagctaaact 720
 cacattaatt gcgttgccgt cactgcccgc ttttcaatcg ggaaacctgt cgtgccagct 780
 gcattaatga atcggncaac gccccgggan aagcggtttg cgtattt 827

<210> 218
 <211> 498
 <212> DNA
 <213> Homo Sapien

<400> 218
 cacttgacct gattacgcca agcttggtag cgagctcgga tccactagta acggccgcca 60
 gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtactttttt tttttttttt 120
 taattcccac aacaacccat ttcaaaatga gaaaactagg ttgagtgact tgtccacagt 180

tccaaagcta ataaaaatga tgaggcatat ttctcttctg ggcccactgt attcagttct	240
ttgttcttta cactgagtg cgaaaaaaaa aaatcagact attttgattc tagaaagtga	300
gataattgaa aatgttaaca tatttctcca aaactgatca gactgtggag tctgtcactt	360
ttttggtata ataaaggagt ttgaagaaac aaatgacatc attcctgatg atggtagccc	420
actccaacaa aggcgtatat atgtaggcaa gtttgaagat atctataaga gcattaaaag	480
gcaagtgcac cattgtgg	498

<210> 219

<211> 818

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (818)

<223> n = A,T,C or G

<400> 219

ggcctntnga gctgctcgac ggccgcatg tgatggatat ctgcagaatt cggcccttagc	60
gtggcgcggc cgaggtacct agaaaaacaga aacttgagta gacatggtaa tgaccagaaa	120
aggctatctt tatacatctt ttttgctagc cttcaaattc atgtcaccta aaagtgtgta	180
agtgcacaaa acaaatctac ttaactgaaa attattttca atgaatggga tgtttagaac	240
tctgtgaggg tttttaaggt cttttcgaat agcaaattct aatgaggctt ttttaagttg	300
gcaattttaa ctcatacaag aaataaaaaac tcaccagtgt ggctgggcag aatatatata	360
ttttctcaaa tattgtttgt ttgttttttc cctgcactgt atccatggtc ccatgatgaa	420
actgttatat tgctgatata tttattggaa tatgtgggac aacttccttt ccactcaaca	480
tatggattgg tagtttaaaa taattccttt ctattaagca aatgtgtggc taaggcacat	540
ttaaatagcc cattaaccca atgagatgac aatgtgttac cctcagagaa agcttaattt	600
ttggagtaac caattacaca tatcacagaa tgtctcatga gaacattttt ggctaggtct	660
accaatttat catgcaaata attatagatt ttcatttgag gcaaagatgc tgattcatca	720
ttagtaacat ggtcacaaat aatcatttat tttattttgg taacatctgt ctttctgtg	780
gggaaactta ctatatgctc tacgttaatt aaattaaa	818

<210> 220

<211> 497

<212> DNA

<213> Homo Sapien

<400> 220

cacttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca	60
gtgtgctgga attcgccctt tcgagcgggc gcccgggcag gtacagccat gaaattgttg	120
ctactcatag aaagtcttag tatagtttgg tttaaacatt ttaaaattgc aaataaatat	180
agatagataa tatcatgatg agaaggtcac gggaagcctg gagatttcag ggtgctcttt	240
cataattgga gcgagaatca tgtaacagtt aagaaaactaa actcttgagc cttcatagtc	300
tttgctttct cccattttat ttatctgata ttatataccc tctttaatta tagactggac	360
tgaaatattt tattttttgtt ttattataaa aaatcctact cgtctttaac atgttctctt	420
aaagagtgtt tcatatataa atactttccc cccaaaatat aaagaggcta accactatag	480
tattgaaaga ttgaaag	497

<210> 221

<211> 831

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (831)

<223> n = A,T,C or G

<400> 221

cnnnannggg cctntanagc atgctcgacg gccgcatgt gatggatgc tgcagaattc	60
gcccttagcg tggctcgggc cgaggtacaa tgaaagtatg agctacctct ctgaagtctg	120

gaaaccttga	gagtattaag	gttacatgca	taaaatcttt	aaaatggaag	tgtcattaca	180
tggtaaacca	attcaaatta	aaaataatct	catgctgtga	aagcaaaata	tataactggt	240
ttaccattc	ataggttaatt	gcacgtcttt	gttacatctc	aatagtttct	ttgtatttgt	300
tgcaatcacc	ctccttcttc	tcaacactct	ttctacctc	catgtaactg	ctggttgtaa	360
ttctttataa	tattctcatc	aatgtttaaa	gatgaagttt	aaagtgtcta	caaaggaagc	420
attttaactc	ctcttagaac	tgagccttta	aattttggtt	tagacacct	aggtctttct	480
ttcaatcttt	caatactata	gtggttagcc	tctttatatt	ttggggggaa	agtatttata	540
tatgaaacac	tctttaagag	aacatgttaa	agacgagtag	gattttttat	aataaaacaa	600
aaataaaaata	tttcagtcca	gtctataatt	aaagagggta	tataatatca	gataaataaa	660
tggggagaaa	gcaaagacta	tgaaggctca	agagtttagt	ttcttaactg	gtacatgatt	720
ctcgctncaa	ttatgaaaga	gcacctgaa	atctncangc	ttncctgtac	cttctcatca	780
tgatattatc	tatctatatt	tattgcaatt	ttaaaatggt	taaaccaaac	n	831

<210> 222

<211> 497

<212> DNA

<213> Homo Sapien

<400> 222

cacttgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	agcgtggctg	cgcccgaggt	actctttctc	tcccctcctc	120
tgaatttaat	tctttcaact	tgcaatttgc	aaggattaca	catttcactg	tgatgtatat	180
tgtgttgcaa	aaaaaaagtg	tctttgttta	aaattacttg	gtttgtgaat	ccatcttgct	240
ttttcccat	tggaactagt	cattaaccca	tctctgaact	ggtagaaaaa	catctgaaga	300
gctagtctat	cggcatctga	cagggtgaatt	ggatggttct	cagaaccatt	tcacccagac	360
agcctgtttc	ctcctgtttt	aataaattag	tttgggttct	ctacatgcat	aacaaacctt	420
gctccaatct	gtcacataaa	agtctgtgac	ttgaagttta	gtcagcaccc	ccaccaaact	480
ttatttttct	atgtgtt					497

<210> 223

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (822)

<223> n = A,T,C or G

<400> 223

gggcctnaga	gctgctcgnc	ggccgccatg	tgatggatat	ctgcagaatt	cgcccttcga	60
gcgccgcccc	gggcaggtag	tttattttca	aaaaactcat	atgtcgcaaa	aaacacatag	120
aaaaataaag	tttgggtggg	gtgctgacta	aacttcaagt	cacagacttt	tatgtgacag	180
attggagcag	ggtttggtat	gcatgtagag	aacccaaact	aatttattaa	acaggatgga	240
aacaggctgt	ctgggtgaaa	tggttctgag	aaccatccaa	ttcacctgtc	agatgccgat	300
agactagctc	ttcagatggt	tttctaccag	ttcagagatg	ggttaatgac	tagttccaat	360
ggggaaaaag	caagatggat	tcacaaacca	agtaatttta	aacaaagaca	cttttttttt	420
gcaacacaaat	atacatcaca	gtgaaatgtg	taatccttgc	aaattgcaag	ttgaaagaat	480
taaattcaga	ggagggggaga	gaaagagtac	ctcgcccgcg	accacgctaa	gggcgaattc	540
cagcacactg	gcggccgtta	ctagtggatc	cgagctcggt	accaagcttg	gcgtaatcat	600
ggtcataget	gtttcctgtg	tgaaattgtt	atccgctcac	aattccacac	aacatacgag	660
ccggaagcat	aaagtgtaaa	gcctgggggtg	cctaattgagt	gagctaactc	acattaattg	720
cgttgcgctc	actggccgct	tttcagtcng	gaaacctgtc	gtgccagctg	cattaatgaa	780
tcggccaacg	cgccgggaga	ngcngnttgc	gtattgggcc	cn		822

<210> 224

<211> 494

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (494)

<223> n = A, T, C or G

<400> 224

cncttgacnt	gattacgcca	agcttggtac	cgagctcgga	tccctagtaa	cgcccgccag	60
tgtgctggaa	ttcgccctta	gcgtggctgc	ggccgaggta	cttttttttt	tttttttaac	120
caactcaata	tgtgtttgat	gatagtgaat	tgataaaacc	cgaagctttt	ccctgtaaat	180
cttacatctt	tgccctttaa	gaatgggtta	caaccatcac	tagatcacag	tagtgcctaa	240
tgaaggttga	gaaccgtagg	agaggctctc	atgctgtaaa	taatgttgca	ggctaataac	300
ctttcatcac	ttcctttgtg	cgcttcctgc	cttaagtga	aagtagcaac	atggcttggg	360
tcccctgtgc	agcatcagct	tatgctgcca	caagtcagtt	tgacccctag	gtgcccagga	420
gctagtatcc	ttatgctctt	ctatcgctaa	cttaattctc	ttcggttatt	atctgaccct	480
ctaactccat	gtct					494

<210> 225

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (822)

<223> n = A, T, C or G

<400> 225

gggccttnga	gctgctcgnc	ggccgccagt	gtgatggata	tctgcagaat	tcgcccttcg	60
agcggccgcc	cgggcaggta	ctttaatttt	gcttggtcaa	atgatctaca	cttacatttt	120
gcaaattcttt	ttttttaaat	tttttaatt	ttatatTTTT	tttccagcca	actcaaggcc	180
aaaaaaaaatt	tcttaatata	gttattatgc	gaggggaggg	gaagcaaagg	agcacaggta	240
gtccacagaa	taagacacaa	gaaacctcaa	gctgtgaggt	caatttgtaa	ttaaaagaat	300
actaagatta	gatgaacaca	acactcagaa	atactctagg	agagctgaaa	aagaaggaac	360
agatgttaac	aaaacaaatt	aaggctgctg	gggaacctga	gtccatgtta	agcttggggt	420
gactgtaaag	aatttttttt	tttaatgcaa	gttagacatg	gagttagagg	gtcagataaa	480
taacgaagag	aattaagtta	gcgatagaaa	gatctaagga	tactagctcc	tgggcaccta	540
gggtgcaaac	gtacttggtg	cagcataaag	tgatgctgca	caggggaccc	aagccatggt	600
gctacttgtc	acttaaggca	ggaagcgcac	aaaggaagtg	atgaaagggt	attagcctgc	660
acattattta	cagcatgaga	gcctctccta	cggttctcaa	ccttcattag	gcctactgtg	720
atctantgat	ggntgtaccc	attcttttaa	ggcaaagatg	taaggattta	cagggaaaag	780
cttcggggtt	tatcaattca	ctatcatcaa	acacatattg	ng		822

<210> 226

<211> 498

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (498)

<223> n = A, T, C or G

<400> 226

anntaaacta	tgacctgatt	acgccaaact	ggtaccgagc	tccgataccac	tagtaacggc	60
cgccagtgtg	ctggaattcg	cccttttcgag	cgccgcgccg	ggcaggtagc	ctctcatata	120
tgcaaacaaa	tcgagactag	gcctcaggca	gagactaaag	gacatctctt	gggggtgtct	180
gaagtgattt	ggacccctga	gggcagacac	ctaagtagga	atcccagtg	gaagcaaagc	240
cataaggaag	cccaggattc	cttgtgatca	ggaagtgggc	caggaaggtc	tgttccagct	300
cacatctnat	ctgcatgcag	cacggaccgg	atgcgcccac	tgggtcttgg	cttccctccc	360
atcttctcaa	gcagtgtcct	tgttgagcca	tttgcatcct	tggctccagg	tggctccctc	420
agtctggact	ctaccacttg	ggtctccaga	ttttctgtta	cgtccttgtg	ggtcaggata	480
tttctggaag	tcactccg					498

<210> 227

<211> 815
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 227
 gggcctctna agctgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60
 cgtggtcgcg gccgaggtac attgatgggc tggagagcag ggtggcagcc tgttctgcac 120
 agaaccaaga attacagaaa aaagtccagg agctggagag gcacaacatc tccttggttag 180
 ctacagctccg ccagctgcag acgctaattg ctcaaacttc caacaaagct gccagacca 240
 gcacttgtgt tttgattctt cttttttccc tggctctcat catcctgccc agcttcagtc 300
 cattccagag tcgaccagaa gctgggtctg aggattacca gcctcacgga gtgacttcca 360
 gaaatatcct gaccacaag gacgtaacag aaaatctgga gacccaagtg gtagagtcca 420
 gactgagggg gccacctgga gccaaaggatg caaatggctc aacaaggaca ctgcttgaga 480
 agatgggagg gaagccaaga cccagtgggc gcatccggctc cgtgctgcat gcagatgaga 540
 tgtgagctgg aacagacctt cctggcccac ttctgatcac aaggaatcct gggcttcctt 600
 atggctttgc ttccactggg attcctactt aggtgtctgc cctcaggggt ccaaactact 660
 tcaggacacc ccaagagatg tcctttagtc tctgctgagg cctantctgc atttggttgc 720
 atatatgaaa aggtacctgc ccgggccggc cgttcnaang gcgaatttca gcacactygc 780
 ggnccntact agtggatccc aactcggtag caage 815

<210> 228
 <211> 512
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(512)
 <223> n = A,T,C or G

<400> 228
 annnnntttt acctannact atgacctgat tacgccaaact tggtagcgag ctccgatcca 60
 ctagtaacgg ccgccagtgt gctggaattc gccctttcga gcggccgccc gggcaggtac 120
 taggtttgca aaaccaatag catgcacatg tgttgggctg aggttcattg gtcagagact 180
 cagttgtaga aggaactttg aatctggcag gcacttaact gtggctgctc agaactaatg 240
 tatctggggc tgcttgagca ggggctgagg tcagaggcag ggagttagct ctccatcatc 300
 cttgactcag acccagctcc gcaggagctc catgggtcatc cctggagctc atgtggagtg 360
 caaggtccgg gagtgggggc gctgacagaa acaaactctg ggggatcagc cagggtcagc 420
 aggggacaga gatcatgtct tttagaagaa tgtgggcttc ctgacctata gaagggcagc 480
 tgttcacccc ctgcagatga tagcagggat ng 512

<210> 229
 <211> 815
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 229
 gggcctnaga gcatgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60
 cgtggtcgcg gccgaggtac tttttttttt tttttttttt ttcagagata ggttcttact 120
 atgctgccct ggctggagtg cagtggcttt cttaggggca atcacagctc actgcagcct 180
 ggaactcctg ggctcagcct cctaagtagt tgagactacc aatgcacgcc accatacctg 240
 gccttagata cccctgtat cctggaactc actccttata agagacactg aatgtggaag 300

tcttcgcaga	tattaagggc	actgcccagt	tcctgtcttt	gaattattgg	gccaacaaca	360
gaaaggcgct	cctgaggccc	cagatcatcc	ctgctatcat	ctgcaggggg	tgaacagctg	420
cccttctata	ggtcaggaag	cccacattct	tctaaaagac	atgatctctg	tcccctgctg	480
accctggctg	atccccccag	atctgtttct	gtcagcgccc	ccactcccgg	accttgcact	540
ccacatgagc	tccagggatg	accatggagc	tcctgcgagg	ctgggtctga	gtcaaggatg	600
atggagagct	cactccctgc	ctntgacctc	agcccctgct	caagcagccc	cagatacatt	660
agttctgagc	agcccagtta	agtgcctgcc	agattcaaag	ttccttctac	aactgagtct	720
ctgacacatg	aaccttaagc	ccaacacatg	tgcattgctat	tgggttttgc	aaacctagta	780
cctgnccggg	cgggccgttc	gaaanggcga	attct			815

<210> 230
<211> 502
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(502)
<223> n = A,T,C or G

<400> 230						
tnnanctana	cttgacctga	ttacgccaac	ttggtaccga	gctcggatcc	actagtaaag	60
gccgccagtg	tgctggaatt	cgccctttcg	agcggccgcc	cgggcaggta	cacagagatg	120
cggtcagctg	gcaggctcgt	gtccccgtgg	taggtgccgg	tggggctgat	gccatgttca	180
tactgatca	cctcccagaa	cttggcaccg	atctggtagc	cacactgacc	agcctggatg	240
tgacagattt	ccctcatggt	taaaatttaa	tttttttgcg	cgccctcaag	tatgtatggg	300
gcaagaaaat	aagtaatttt	ttttctccgc	aggtcgcagg	ctggaagggt	ggaatgcgcc	360
ccagaggctg	gagcagcgag	gtgcaaacgc	gacggcagga	aggttctgag	agccccgcgt	420
acctcgggcg	cgaccacgct	aaggggcgat	tctgcagata	tccatcacac	tgccggccgct	480
cgagcatgca	tctagagggc	cc				502

<210> 231
<211> 817
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

<400> 231						
nngggcctct	nnagctgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cggccgaggt	acgcggggct	ctcagaacct	tcctgccgtc	gcgtttgcac	120
ctcgtgctc	cagcctctgg	ggcgcattec	aaccttcag	cctgcgacct	gcggagaaaa	180
aaaattactt	atcttcttgc	cccatacata	ccttgaggcg	agcaaaaaaa	ttaaatttta	240
accatgaggg	aaatcgtgca	catccaggct	ggtcagtggt	gctaccagat	cggtgccaaag	300
ttctgggagg	tgatcagtga	tgaacatggc	atcgacccca	ccggcaccta	ccacggggac	360
agcgacctgc	agctggaccg	catctctgtg	tacctgccc	ggcggccgct	cgaaagggcg	420
aattccagca	cactggcgcc	cgttactagt	ggatccgagc	tcggtaccaa	gcttggcgta	480
atcatgggtc	tagctgtttc	ctgtgtgaaa	ttgttatccg	ctcacaattc	cacacaacat	540
acgagccgga	agcataaagt	gtaaagcctg	gggtgcctaa	tgagtgaagt	aactcacatt	600
aattgcgttg	cgctcactgc	ccgttttcca	gtcgggaaac	ctgtcgtgcc	agctgcatta	660
atgaatcggc	caacgcgcgg	ggagaggcng	nttgcgtatt	gggcgctctt	ccgcttnctc	720
gctcacttga	ctcgtttgcg	ctcggctcgt	cngcttgccg	cnanccggat	tcagcttact	780
taaaggcggt	aataccgggt	atccaccaga	attangg			817

<210> 232
<211> 481
<212> DNA
<213> Homo Sapien

```

<400> 232
actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca      60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtacaaattt gttgtgtttt      120
ttatgttcta ataatactga gacttctagg tcttaggtta atttttagga agatccttgca      180
tgccatcagg agtaaatttt attgtggttc ttaatctgaa gttttcaagc tctgaaattc      240
ataatccgca gtgtcagatt acgtagagga agatcttaca acattccatg tcaaattctgt      300
taccatttat tggcatttag ttttcattta agaattgaac ataattattt ttattgtagc      360
tatatagcat gtcagattaa atcattttaca acaaaagggg tgtgaacctt agactattta      420
aatgtcttat gagaaaattt cataaagcca ttctcttgtc attcaggtcc agaaacaaat      480
t                                                                                   481

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<210> 233
<211> 809
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(809)
<223> n = A,T,C or G

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```

<400> 233
gggcctctnn agcatgctcg acggccgcca tgtgatggat atctgcagaa ttcgccctta      60
gcgtgggtcgc ggccgaggtta caaaagatac tgttcacccc attagagaac tgatttgaag      120
ttactcttcc ctgtgagggc tctgtcatct taactgtatt cacatacttt caactgttcc      180
ccttgctgct aacctcaggt tcttttagttc atctatctgg cagagctgat ttggggaaaa      240
caagacaaac cttgtcaggt tttcttaata aataagcagt tgcatgttt caagagtttt      300
agaaatgagc aataatcaag gaagaggaca acgattgcat acgtttataa tatttagaac      360
atcttttgcc acaataaaca ctggaaacca cccacttggt gacaccaaac atttggattt      420
gtatattttg tggcattccc tcaacttaac cctctcatcc ttaaaaattt tcagaaattt      480
ttgcagcaac aaacactgat tgcaacatat gatttagggg agatttatga accatttttt      540
cactgaaata catcaacagg agtgagtagt ctgagtgaac accccagcat ggagaaaact      600
gtagttttaca gattcttctg gagcattttt atttctagat tgcagtggaa gtctaaccac      660
ccttgagat gtctgcctta aagggtcttt ggccagggtc ctctgtagag ccatagtcca      720
gatctactct atttgngtgc tccttacaac atcagaacag caactctcaa tccggatcat      780
cccagaatgc cgctgagtc cagcgtggg                                                                                   809

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<210> 234
<211> 482
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(482)
<223> n = A,T,C or G

```

```

<400> 234
actatgacca tgattacgcc aagcttggtta ccgagctcgg atccactagt aacggccgcc      60
agtgtgctgg aattcgccct tcgagcggcc gcccgggcag gtactgaaaa gaagatagtg      120
ccatttgaaa caacagatgc atcttttata cattttcaca agttngtttt tcatattttt      180
aaaggcccca tttatctgta acagtgggtat ttttatttag agtatcggct acttaatata      240
tacatgcaac aatatatgct ttaatagtca tttaactttt angaatattt catnacatta      300
agtggttaag catagcggtt aaagagtgga atataaggaa tannaanntn tngaaaatac      360
gctgctannt tcattngcan actatagtag aatggagatg cccataaaaag tgatcattgc      420
ccaactgaat tcctacceng aactaacatg tgattctcaa gtgggganaa atattattaa      480
aa                                                                                   482

```

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<210> 235
<211> 474
<212> DNA
<213> Homo Sapien

```

<220>
 <221> misc_feature
 <222> (1)...(474)
 <223> n = A,T,C or G

<400> 235

acttgacctg	attacgccaa	gcttggtacc	gagctcggat	ccactagtaa	cggccgccag	60
tgtgctggaa	ttcgccctta	gggtgggcgc	ggccgaggta	cattacttgg	tggttaacatt	120
gttggcagtg	gtagccctt	ttcagaaagc	aacttgctgt	aagtcagggt	gtcögttcca	180
accttcagct	agtgaagag	tagtaacaaa	tggtaaacaa	gagaatgatt	gtttaaacct	240
atctgtggac	acttaatgca	actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	300
gaaatatatt	tacagaacat	taatggagaa	gcagggacac	gaagtatatt	atactacagt	360
tataactcaa	cagtcattat	atgccgggtca	tttaccagtc	atttaaccag	ttcattataa	420
ctgttttaaaa	atatatatgc	ttatagtcaa	aagctgttgt	ggtgtgtgtg	ttgn	474

<210> 236
 <211> 819
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(819)
 <223> n = A,T,C or G

<400> 236

gggcctttna	gctgctcnc	ggccgccag	gtgatggata	tctgcagaat	tcgcccttcc	60
gagcggccgc	cggggcaggt	actttttttt	tttttttttt	tttttatttt	taacttttatt	120
ttttattgntg	acactattac	agatagaatg	accacaacca	tattaacaaa	ccaaaaacct	180
gtgcacagaa	acaagatgaa	gaaaatatat	caagatgtta	aacacactct	ttggatgggtg	240
aaaacatggg	tgagtttctc	ttctacattt	ctgtaacttc	aaagtttcta	taatgaacac	300
atthcatata	taatggaaat	atatgtagta	aagggtggact	accaaaacac	tagaatgatg	360
accttttcaa	gaaaccgaaa	caaaataacc	ataatcccac	aacaaccaca	caactatttc	420
ttgnttttca	tctttcttcc	catctttgac	atthtatgcat	acttatcact	aacaccctaa	480
taatcacaga	ctagtgcaca	gatcaagatg	ttaacagtta	attgttgttg	ggtgttgggga	540
atatgtgtga	atthttcttta	ctgaatttcc	aaagtthtgt	atgagtatgt	attatattht	600
taatggaaaa	tacatacata	aaattttatta	ccaaaacacc	aaagattatt	taagggaatt	660
tgagacaaaa	tatttaacca	aattcccaca	atgacaacac	tatttttagt	atthttccaca	720
tcttttctatt	taagacttta	tgcacacata	tttaacactg	gtatcacaag	cgtgggcact	780
gaaacaagga	tnganggaac	nggatcagga	tgtagccg			819

<210> 237
 <211> 483
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(483)
 <223> n = A,T,C or G

<400> 237

agcttgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	agcgtgggtc	cggccgagg	actaagctca	gcattgtctca	120
tggtcaatta	ctgcgtatth	ccaaaaaatg	tgthgttttg	tcttgagaaa	atthcttttagc	180
cccttgacac	cagaattatc	tccactgtag	aaaaaataga	caattatagt	ctaacaggta	240
aatcacaaaa	atthcttcagc	cacacttctt	gggttcaaat	gtggtttttc	tactcagtaa	300
tattgttaacc	ctgggcaagt	tatttaactt	gtctaagtc	cagtttctcc	atctgtaaaa	360
tgaggataat	cacaatatct	actacataat	gttcttctga	agatgtaatg	agataatcca	420
tgtnaaatat	tcanacagca	cataggaatg	ggtcatttaa	tgthtatcat	tacttgctta	480
ttt						483

<210> 238
<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (815)
<223> n = A,T,C or G

<400> 238
gggcccntnn agctgctcgn cggccgccag tgtgatggat atctgcagaa ttgcgcccttt 60
cgagcggccg cccgggcagg taccattatt ttccattcaa taccatatgt ctgaaaaata 120
ggcaagtaat gataaacatt aaatgaccca ttccatgtgt ctgtctgaat attttacatg 180
gattatctca ttacatcttc agaagaacat tatgtagtag atattgtgat taccctcatt 240
ttacagatgg agaaactgag acttagacaa gttaaataac ttgccagggt ttacaatatt 300
actgagtaga aaaaccacat ttgaaccacg gaagtgtggc tgaagaattt ttgtgattta 360
cctgttagac tataattgtc tattttttct acagtggaga taattctggg gtcaagggggc 420
taaagaattt tctcaagacc aaacaacaca ttttttggaa atacgcagta attgaccatg 480
agacatgctg agcttagtac ctccggccgg accacgctaa gggcgaattc cagcacactg 540
gcgcccggtt ctagtggatc cgagctcggg accaagcttg gcgtaatcat ggcatagct 600
gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat 660
aaagtgtaaa gcctgggggt cctaattgagt gagctaactc acattaattg cgttgcgctc 720
actgnccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggncacacg 780
cgccggggag aggcngnttg cgtattgggc gctct 815

<210> 239
<211> 483
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (483)
<223> n = A,T,C or G

<400> 239
actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt agcgtggctg cggccgaggt actttttttt tttttttttt 120
ttttttttta gcgagcaagt atggnttatt acggacaaat ggtagaaaaa tgttactaat 180
atccatagat aagttcctta agtcatgtag agagactggt attaaaagtt tgctgcattt 240
ttctattgaa tcaagaacta gctaccagtt acagtgcctt ctaaacacac agtttagcttt 300
gctttatcaa taaccaaata ataaactagg tcccaatggt tttgtccaca tntagattgt 360
tcaggtgatc aggaactctt ttattttgtg gcttttagctt ttagttcttg gttatatctc 420
caaatacgaa aaagctgaga ggctcctact gccccacaa agaaattaac agcaaacaga 480
ctt 483

<210> 240
<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (815)
<223> n = A,T,C or G

<400> 240
gggcctntna gctgctcgac ggccgccatg tgatggatat ctgcagaatt cgccttttcg 60
agcggccgcc cgggcaggta caaccatcca gcaggcccca gaacagtttt cttctgggct 120
ccaattatga aatggggggt ggtgtgtgct ggattggctg atatggccag acctgcagaa 180


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aaacttagca cagctcaatc tgctgttttg atggctacag gggtttatttg gtcaagatac 240
tcacttgtaa ttattccaaa aaattggagt ctgtttgctg ttaatttctt tgtgggggca 300
gtaggagcct ctcagctttt tcgtatttgg agatataacc aagaactaaa agctaaagca 360
cacaaataaa agagttcctg atcacctgaa caatctagat gtggacaaaa ccattgggac 420
ctagttttatt atttggttat tgataaagca aagctaactg tgtgtttaga aggcactgta 480
actggtagct agttcttgat tcaatagaaa aatgcagcaa acttttaata acagtctctc 540
tacatgactt aaggaactta tctatggata ttagtaacat ttttctacca tttgtccgta 600
ataaaccata cttgctcgtc aaaaaaaaaa aannnnnaaa aaaaaaagta cctcgggccgc 660
gaccacgcta agggcgaatt ccagcacact ggcgcccggt actagtggat ccgagctcgg 720
taccaagctt ggcgtaatca tgggtcatag ctggttcctg tgtgaaatgg tatccgntca 780
caattncaca caacatacga accggaagcc ttaag 815

```

<210> 241

<211> 486

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(486)

<223> n = A,T,C or G

<400> 241

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agctatgacc atgattacgc caagcttggt accgagctcg gatccactag taacggccgc 60
cagtgtgctg gaattcgccc ttagcggccg cccgggcagg tacttcccac cactggaaat 120
gttagcataa aagaacttgg agaggaaaaa agtattaaca aaactgcagt ctgcactctt 180
taaacctgtt taaggctctt catcctgggt agcaaaaggt gtgaatgtaa tgtgatggaa 240
tttaaaagtt ttatgagacc aggcacagtg gctcacgact gtaattccag cagtttagga 300
agccgaagtg tgcagatcac ctgaggtccg gagaccagcc tggccaacat ggtgaaaccc 360
tgtctctact agaaatacaa aaattagcca ggtgtggtgg cgggcgcctg taatcccaac 420
tactcaggag gctgaggcta gagaatcact tgaaccacgc angcggaggt tgcggtgagt 480
cganat 486

```

<210> 242

<211> 481

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(481)

<223> n = A,T,C or G

<400> 242

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anttgaacctg attacgccaa gcttgggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgcccttcg agcggccgcc cgggcaggta catcagtgtt cattttatta 120
tttcttacac tgtcttcatg acttacacat aatattttgc tagttttaaa acataagatg 180
tgataataat ctaaacagac caaaggaaat aaatgaatat gattaaaaaa agacagagaa 240
taagccctgt ctgatggaaa gcataacaaa gcaggtagaa caactgtcag gaatgcttga 300
tccaataaag ctaggtttgt gatccacaac acttcagcat tttaatgtga tttttgatgt 360
tngctttttg caatggtgat tctcagttgc ctccctcctg tgtctttaca agctgaaatc 420
aagtgaagct acttctgact ttttctaaaa cttaaaccac acatgaaggt ctgcgtattc 480
t 481

```

<210> 243

<211> 824

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(824)

<223> n = A,T,C or G

<400> 243

cnannngggcc	tntnnagcat	gctcgacggc	cgccatgtga	tggatatctg	cagaattcgc	60
ccttagcgtg	gtcgcggccg	aggtacataa	tacttttagat	aaacatTTTT	agaataactt	120
tattataact	cgataagcaa	aataatccaa	acctttatac	atttctacaa	ggatagtcac	180
atatgtcaat	ttttcggttt	cctctcgtgc	ctattttgtc	tcttgagccg	gcccccttcc	240
agctgacacg	tgtgtccgt	gttctccac	aatagtgtga	cctggcctga	gtccatgccg	300
ccgtgagcct	cctttctgtg	cttacaacag	cagcctgcct	gatgtcagtt	atggactatt	360
ctttctttca	gcctcatttc	agggtcctct	gcctcttaga	gctgctgctg	tagcttagct	420
agagaccgcg	tgtgttgca	tcatggaaaa	gtgccacata	cgtgcacatg	tgaaagaata	480
cgcagacctt	catgttgggt	ttaagtttta	gaaaaagtca	gaagttagct	cacttgattt	540
cagcttgtaa	agacacagga	gggaggcaac	tgagaatcac	cattgcaaaa	agcaaacatc	600
aaaaatcaca	ttaaaatgct	gaagtgttgt	ggatcacaaa	cctagcttta	ttggatcaag	660
cattcctgac	agttgttcta	cctgcttttg	ttatgctttc	catcagacag	ggcttattct	720
ctgtcttttt	taatcatatt	catttatctc	ctttggtctg	tttagattat	tatcacatct	780
tatgttttaa	aactagcaaa	atattatgtg	taagtcatga	agnt		824

<210> 244

<211> 483

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(483)

<223> n = A,T,C or G

<400> 244

actatgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggcccgcg	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	ggtacgcggg	ggcaggggtg	120
ttaatcgctg	ccaagcgga	cttactgcaa	gctatcaaat	ctgaggtctt	attttgttga	180
gtcgaaagtg	aaattttcct	ttggccaacg	tgacagggtc	ttgtttggtg	gtaaaaagg	240
ttactagaca	cccccatctc	cactgcact	ggagggcgca	tttctcagct	cttgctcttc	300
aaacctgctg	aaaggaattc	ctagatctaa	acaccagcat	ttgacattgt	gcagcaana	360
aatggttatg	ganaagccca	gtccgctgct	tgtanggcgg	gagtttgtga	ggcaatatta	420
tactttgctg	aataaagctc	cggaaatatt	acacagggtt	tatggcagga	attcttccta	480
tgt						483

<210> 245

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 245

ttgggcccct	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtgggc	gcggccgagg	tacttcccct	cgaaacataa	tgggttttgc	aattaagatt	120
ctctgaactg	gttcagagtc	atcaaaaacc	acaaaaccaa	aatttggaag	ctttccccca	180
acacccttgg	tattgatgcg	aagttccaca	acgtttccaa	aactcatgaa	gaattccttt	240
agctcatttt	catcaatata	atgtggcaag	ttaccaacaa	aaagttagatg	actatctgga	300
tagcgaatta	ttctacgggt	gtcagagtca	ttctgttcca	tatctcctct	gcctgggtctt	360
ggctcctctag	gaggaaaacc	aggctgttct	ctaggctggt	gttcacgcac	acgaggtggc	420
tgagattgaa	cttctgggtt	agcttcgact	cttggctttg	gtgggtcttg	tggcagagaa	480
acaggttctg	ccggaggagg	agtagtagat	ttctcctcta	gttcttctaa	gttcttctcc	540
tccacttggtg	gtttcagctc	ttcagtcctt	gtttcagatt	ctgggtcagg	ttcaggttca	600
tgagaggatt	cttccaaagg	ctcctctatg	ccattagtc	caggggtgagc	ttcatagtaa	660
ccactgttag	cattttcttg	cacaggttca	ggagatgggt	gnctttcttc	ttggctctct	720

tctacttcat cttctgattc ttcatacaag ttcangctca gaatcaccaa acacttnatc 780
ttcataacga aacatatcat tgtgaacata aaatttattt gg 822

<210> 246
<211> 482
<212> DNA
<213> Homo Sapien

<400> 246
actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt agcgtggctg cggccgaggt actttttttt tttttttttt 120
aaccaactca atatgtgttt gatgatagtg aattgataaa acccgaagct tttccctgta 180
aatcttacat ctttgccctt aaagaatggg ttacaaccat cactagatca cagttagtgc 240
taatgaagggt tgagaaccgt aggagaggct ctcattgctgt aaataatggt gcaggctaatt 300
aaccttttcat cacttccttt gtgcgcttcc tgccttaagt gacaagtagc aacatggctt 360
gggtcccctg tgcagcatca gcttatgctg ccacaagtca gtttgcaacc taggtgcccc 420
ggagctagta tccttagatc tttctatcgc taacttaatt ctcttcgtta tttatctgac 480
cc 482

<210> 247
<211> 816
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 247
gggccttnga gctgctegan cggccgcat gtgatggata tctgcagaat tcgccctttc 60
gagcggccgc ccgggcaggt actttaattt tgcttggtca aatgatctac acttacattt 120
tgcaaatctt ttttttaaat ttttttaatt ttatatattt tttccagcca actcaaggcc 180
aaaaaaaaatt tcttaataata gttattatgc gaggggaggg gaagcaaagg agcacaggta 240
gtccacagaa taagacacaa gaaacctcaa gctgtgaggt caatttgtaa ttaaaagaat 300
actaagatta gatgaacaca acactcagaa atactctagg agggctgaaa agaaggaac 360
agatgttaac aaaacaaatt aaggctgctg gggaacctga gtccatgta agcttgggtt 420
gactgtaaag aatttttttt tttttaatgc aagttagaca tggagttaga gggtcagata 480
aataacgaag agaattaagt tagcgataga aagatctaag gatactagct cctgggcacc 540
tagggtgcaa actgacttgt ggcagcataa gctgatgctg cacaggggac ccaagccatg 600
ttgctacttg tcaactaagg caggaagcgc acaaaggaag tgatgaaagg ttattagcct 660
gcaacattat ttacagcatg agagcctctc ctacgggtct caaccttcat taggcactac 720
tgngatctag tgatggttgt acccattctt taaaggcaaa gatgtaagat ttacagggaa 780
aagcttcggg ttttatcaat cctatcatca acacng 816

<210> 248
<211> 482
<212> DNA
<213> Homo Sapien

<400> 248
actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtactctttg ggcattaatg 120
ccttctctgt aattatatct cgtttttgct tggcagtgac ctaccagta attgcatcgt 180
gtattgccat gaaaggtaaa cacatttgta actgaactta ccaagcagat tctgtgagaa 240
agcactgggt ggggctgaac actgttgaca catcattttt attggaagag tattaactgg 300
tgctctttct gaaacacacc aacctatatt cctctgctcc cccaaagctg tttctgatcc 360
tgctgggagc aactaactag ttattatgca catctgctcc agaccagct ctttaacttc 420
atggttttac agcttggttt ttttttttct ttttttttct ttttttttaa aaaagcacct 480
tt 482

<210> 249

<211> 821
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (821)
 <223> n = A,T,C or G

<400> 249
 ggcctctnag ctgctcgacg gccgccatgt gatggatata tgcagaattc gcccttagcg 60
 tggctcgggc cgaggtaact tatgaatttg gggtaggtaa agtttgattt ttatcttaaa 120
 catgttttct atgatgaaa ggaacaaaat tgtaaaaaat gaggatcttc cctctaaagg 180
 tttcaaagcg ttagaggaca tgcaattaaa tgttggtaca ccttgaacaa tgagcctctt 240
 gagttttagt gaagggcgaga ccggctccat taccaacaac tttggggtag aaagcacagc 300
 tctcctcttt taccagcac aaatgcaatc ctgattataa aactatttgt gtttctaaat 360
 acaaccaaag gaaatcttag agaaacataa attagaaacc tcttttatta aggggaaaca 420
 acaaaaaaag gtgctttttt aaaaaaaaag aaaagaaaag aaaaagaaa aacaagctgt 480
 aaaaccatga agttaagag ctgggtctgg agcagatgtg cataataact agttagttgc 540
 tcccagcagg atcagaaaca gctttggggg agcagaggaa tatgggttgg tgtgtttcag 600
 aagaggcacc agttaatact cttccaataa aaatgatgtg tcaacagtgt tcagcccaa 660
 ccagtgtttt ctcacagaat ctgcttggtg agttcagttc acaatgtgtt tacctttcat 720
 ggcaatacac gatgcaatta ctgggtaggc cactgccaaag caaaaaccga agatntaatt 780
 tcccagagaag gcattaatgc ccaaagagta cctgccccgg n 821

<210> 250
 <211> 481
 <212> DNA
 <213> Homo Sapien

<400> 250
 acttgacctg attacgcca gcttggtacc gagctcggat ccactagtaa cggccgccag 60
 tgtgctggaa ttcgccctta gcgtggctgc gcccgaggta caacattgat gttttaatat 120
 agaatgaagt gcttgctaca cagtcaagta aatcaacata tccattacca cacacacttt 180
 tcttttctga ggagcggtaa gactacttta attttgcagt tattgattaa ttaaaaaaca 240
 cagttgtttt cagcatttcc tagttacagt agtgcatagg aaattccatt ctaaacaagg 300
 aagtaattaa tgaaataaca acacacctta acattttaca ttgatagggt acagtttaca 360
 aggtgctttc acatacatta tttcatttga ttcttacaac aagcagaaaa aacagtggga 420
 aagatttttt ttttcaggct tacaatgagt attttcaggc caatgggcag ttaacacaag 480
 g 481

<210> 251
 <211> 803
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (803)
 <223> n = A,T,C or G

<400> 251
 gggccttnna gctgctcgnc ggccgccagt gtgatggata tctgcagaat tgcgcccttc 60
 gagcgccgc ccggcaggta cactaaatta gaatatattt aaagtatgta acattcccag 120
 tttcagccac aatttagcca agaataagat aaaaacttga ataagaagta agtagcataa 180
 atcagtattt aacctaaaat tacatatattg aaacagaaga tattatgta tgctcagtaa 240
 ataattaaga gatggcattg tgtaagaagg agccctagac tgaaagtcaa gacatctgaa 300
 tttcaggctg gaaaactatc agtatgatct cagcctcagt tctcttgtct gtaaaatgga 360
 agaactggat taggcagttt gtaagattcc tccttaactt cacagtcgat gacaagattg 420
 tctttttatc tgatatattg aagggtatat tgctttgaag taagtctcaa taaggcaata 480
 tatttttaggg catctttctt cttatctctg acagtgttct taaaattatt tgaatatcat 540
 aagagccttg gtgtctgtcc taattccttt ctcactcacc gatgtctaat acccagttga 600

atcaaactgt caacctacca aaaacgatat tgtggcttat ggggtattgct gtctcattct	660
tggtatatctc ttgtgttaac tgcccatggc ctgaaaaaac tcattgtaag cctgaaaaaa	720
aaaatctttc ccactgggtt ttctgcttgg tgtaagaatc aaatgaaata tggatgtgaa	780
agcccttgta actgtaccta tcn	803

<210> 252
 <211> 500
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (500)
 <223> n = A,T,C or G

<400> 252:									
tacnccaann	tttgacctga	ttacgcccaag	cttggtaccg	agctcggatc	cactagtaac				60
ggccgccagt	gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtag	agatgaaaag				120
aagtgggtgt	aatgacctac	ctgcaccgat	aataaagcaa	atagaatgat	tatatacatt				180
aagatcagct	tgattaaaaa	taaattttat	atgcaggtaa	attgatcatt	aaaatgaacc				240
cagtttaact	cttctcgtgt	gttgttttaa	ggtaggccac	tgaaacgcag	agataaaatc				300
anatggggaa	aattaaaaagc	naagaaaaaa	attacaaaac	aagtgggtta	agccatggat				360
tcttaaccaa	accctggact	aaatgtgccca	aagtgtcttg	aaaattttcca	ctgccagcna				420
tggnrtggtaa	agtcantttg	gcaaaaaaaa	ggtgggttnga	aaaaaaactn	acctttttaa				480
ttcccacctt	ggatctggcn								500

<210> 253
 <211> 831
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (831)
 <223> n = A,T,C or G

<400> 253:									
gnnnnnnnnn	gnnnnnnnnn	ntttnnantg	ggcctctnna	gcattgctga	cgcccgccat				60
gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcagg	actatatttg				120
tgagcctagg	gtagggggcac	tgctgcaact	tctgctttca	tcccatgcct	catcaatgag				180
gaaagggaac	aaagtgtata	aaactgccac	aattgtattt	taattttgag	gtatgatatt				240
ttcagatatt	tcataatttc	taacctctgt	tctctcagta	aacagaatgt	ctgatcgatc				300
atgcagatac	aatgttggtta	tttgagaggt	tagttttttt	tcctacactt	ttttttgcca				360
actgacttaa	caacattgct	gtcagggtgga	aatttcaagc	acttttgac	atttagttca				420
gtgtttgttg	agaatccatg	gcttaaccca	cttgttttgc	tatttttttc	tttgccttta				480
attttcccca	tctgatttta	tctctgcgtt	tcagtggcct	accttaaaac	aacacacgag				540
aagagttaaa	ctgggttcat	tttaatgac	aatttacctg	catataaaat	ttatttttaa				600
tcaagctgat	cttaatgtat	ataatcattc	tatttgcttt	attatcggtg	caggtaggtc				660
attaacacca	cttcttttca	tctgtacctc	ggccgcgacc	acgctaaggg	cgaattccag				720
cacactggcg	gcccgttact	agtggatccg	agctcggtag	caagcttggc	gtaatcatgg				780
gtcatagctg	tttctgtgtg	gaaattggta	tccgntcaca	attcccacan	g				831

<210> 254
 <211> 514
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (514)
 <223> n = A,T,C or G

<400> 254

cacttgacnt	gatcgccaac	ttggtaccga	cntcgnntcc	attattaccg	gacacttgac	60
tgatacgcca	ncttgggtacc	gactcggacc	actagtaacg	gncgccagtg	tgctggaatt	120
cgcccttgag	cgcccgccc	ggcagggtacc	tctaatagcag	gctaataaat	ttaagctaata	180
tatttatgct	acctgtgctg	tggtgggtttc	ctatcagcag	ccaaatataa	cctcacagtt	240
gttttggctgt	ttttgctttc	acaaaagagc	tattaaccaa	cttaaaaatg	ttttttgatt	300
gaaggatgct	taggggatga	gaggatatca	acaatataag	cccatgccaa	atccccattt	360
cttatcatta	aaactgacct	gacattaaag	caatgcttaa	ttttttacca	taagagtga	420
attttgagat	tataatttta	aagtgtaaaa	tatttacact	taaattacac	ttataatttt	480
aaagtgtata	atatttacac	agattaaaaat	aaaa			514

<210> 255

<211> 830

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (830)

<223> n = A,T,C or G

<400> 255

nnnnnnngcn	nnnnnnnann	nnnnnnnant	gggcctctnn	agentgctcg	acggcccgcca	60
tgatgatgat	atctgcagaa	ttcgccctta	gcgtggctgc	ggccgaggta	cttttttttt	120
ttttccagat	gaagctctgc	tctgttgccc	aggctggagc	gcagtggcac	aatctcagct	180
cactgaaacc	ttcgccccct	gggtcgaagc	tagccagtct	tttagtaaac	atttagtcaa	240
caaatctgca	attataacgg	aggtttgatt	tttgttggtt	ttgtttgttt	ttaagtcact	300
ctgtggttgt	aatatcaatt	tacttttcaa	gtttagaatg	ttttgcttca	ttgtttccca	360
tattttattt	taatctgtgt	aaatattata	cactttaaaa	ttataagtgt	aatttaagtgt	420
taaatatttt	acacttttaa	attataatct	caaaatttca	ctcttatggg	aaaaaattaa	480
gcattgcttt	aatgtcagggt	cagttttaat	gataagaaat	ggggatttgg	catgggctta	540
tattgttgat	atcctctcat	cccctaagca	tccttcaatc	aaaaaacatt	tttaagtgtg	600
ttaatagctc	tttgtgaaa	gcaaaaacag	caaaacaact	gtgagggtat	atttggtctg	660
tgatagagaa	ccaccacagc	acaggtagca	taaaataatta	gcttaaat	attagcctgc	720
attagaggta	cctgcccggg	cnggcgtca	agggcgaatt	ccagcacact	ggcggccggt	780
ctagtggatc	cgactcggtc	cagcttgctg	aatcatgggc	atagctgttg		830

<210> 256

<211> 524

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (524)

<223> n = A,T,C or G

<400> 256

cnnnnnnnna	ncntnanacn	nnnnnnntgn	nnnnnagann	nnnnnnnnnn	nnnnnnnnnn	60
actatgactg	attacgcca	cttgggtaccg	actcggtacc	actagtaacg	gccgccagtg	120
tgctggaatt	cgcccttagc	gtgggtcgcg	ccgagggtaca	ttacttgggtg	ttacattgt	180
tggcagtggt	agccctttt	cagaaagcaa	cttgctgtaa	gtcagggtgt	ccgttccaac	240
cttcagccag	tgaaaaggta	gtaacaaatg	gtaaacaga	gaatgattgt	ttaaacctat	300
ctgtggacac	ttaatgcaac	tgtttaaaaa	tgataatcac	gagttatgta	gcaacgtgga	360
aatatattta	cagaacatta	agtggagaaa	gcaggacacg	aaagtatatt	tatactacag	420
ttataactca	acagttcatt	tatatgctgn	tcatttaaca	gttcatttaa	acagttcatt	480
ataactgttt	aaaaatatat	atgcttatag	tcaaaagctg	ttgg		524

<210> 257

<211> 814

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(814)
 <223> n = A,T,C or G

<400> 257
 ntgggcctct agaagcatgc tcgagcggcc gccagtgtga tggatatctg cagaattcgc 60
 ccttgagcgg ccgcccgggc aggtactttt tttttttttt tttttttttt tttgatattt 120
 atttttaact ttatttttat tgntgacact attacagata gaatgaccac aaccatatta 180
 acaaaccaaa aacctgtgca cagaaacaag atgaagaaa tataatcaaga tgttaaccac 240
 actcttttga tggtgaaaac atgggtgagt ttctcttcta catttctgta acttcaaagt 300
 ttctataatg aacacatttc atatataatg gaaatatatg tagtaaaggt ggactaccaa 360
 aacactagaa tgatgacctt tcaaggaaac cgaaacaaaa taaccataat cccacaacaa 420
 ccacacaact atttcttget tttcatcttt cttcccatct ttgacattta tgcatactta 480
 tcaactaacac cctaataatc acagactagt gcacagatca agatgttaac agttaattgt 540
 tgttggggtg tgggaatatg tgtgaatttt ctttactgaa tttccaaagt tttgtatgag 600
 tatgtattat atttgtaatg gaaaatacat acataaaatt tattaccaa acaccaaaga 660
 ttatttaagg aatttgagac aaaatattta accaaattcc cacaatgaca acactatttt 720
 agttattttc cacatctttt catttaaaga ctttatgcac acatatttaa cactgntatc 780
 acaagcgtgt gcactgnaac aggattgagg aaan 814

<210> 258
 <211> 474
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(474)
 <223> n = A,T,C or G

<400> 258
 acagctatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60
 ccagtgtgct ggaattcggc cttagecgtg tcgcggncga ngtaacattat ttggaggact 120
 taaaatctgn atgtggacat ggtcccaact tantgtccgt taactagtta tccaaattgt 180
 aanagctaca gaaagcccag ttgaggggta antgtgcctg gntcacacag cctgcaccct 240
 gtcacctcgg caatgagcca gtgtggggca ctggggactt ctaacccttg gattgtcttt 300
 tttgacctgt gcataccttc taattgnaaa atatatttca gaccgagagt acntgcccgg 360
 gcggccnctc aaaagggcga attctgcaaa tatccatcac atggcgggccg ntngagcatg 420
 catctaggag ggcncaatc ccctatagn agtngtatta caattcactg gcnc 474

<210> 259
 <211> 809
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(809)
 <223> n = A,T,C or G

<400> 259
 ntgggccent agangcatgc tcgncggccg ccatgtgatg gatattctgca gaattcggcc 60
 tttcgagcgg ccgcccgggc aggtactcac ggtctgaaat atattttaca attagaaggt 120
 atgcacaggt caaaaagagc aatccaaggg ttagaagtcc ccagtgcgcc acactggctc 180
 attgccgagg tgacagggtg caggctgtgt gagccaggca cacttacccc tcaactgggc 240
 ttctgtagct ttacaatttg gataactagt tagcggacag tagttgggac atgtcacata 300
 cagatttgag tcttccaata atgtacctcg gccgcgacca cgctaagggc gaattccagc 360
 aactggcgg ccgttactag tggatccgag ctcggtacca agcttggcgt aatcatggtc 420
 atagctgttt cctgtgtgaa attgttatcc gctcacaatt ccacacaaca tacgagccgg 480
 aagcataaag tgtaaagcct ggggtgccta atgagtgagc taactcacat taattgcgtt 540

gcgctcactg	cccgctttcc	agtcgggaaa	cctgtcgtgc	cagctgcatt	aatgaatcgg	600
ccaacgcgcg	gggagaggcg	gtttgcgtat	tgggcgctct	tccgcttcc	cgctcactga	660
ctcgcgtgcg	tccggtcggtc	ggctgcggcg	agcggtatca	gctactcaaa	ggcggtaata	720
ccgttatnca	cagaatcang	ggatacgcag	gaaagaacat	gtgagcaaaa	ngccacaaaa	780
ggccaggaac	cgtaaaaagg	ccgcgtttg				809

<210> 260

<211> 713

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (713)

<223> n = A,T,C or G

<400> 260

ctcttttaaac	gccagctcga	ntccganntc	tatccntgac	aannnnngtn	ccggnetgga	60
attcgnctt	tgcagcggcc	gcccgggcag	gtacttgagt	tcatgggcat	ctctcccgc	120
gcctctcagc	ctatctgcac	catgtctcac	acgttcagtt	gcagctctta	ccgttttgaa	180
ggcgcacgtg	ggcaagaagt	cctgggcagc	acaagaaagt	caatcacgtt	gagacagaga	240
gagcaggaga	ggaagtgggc	cccagtagaa	gtgggcgaga	gagcgttggg	tgggaacgtg	300
gcacgagaga	gagaaattat	gagattgaga	gagagagaga	gagagagaga	gagagagaga	360
gaaagagana	ganagaggga	aaganaaaga	gacagagaaa	agaaactatt	gttggttaaa	420
atgccagcgg	aaagtccatg	ggggtgaatg	agtccggcaa	tggncangga	gttagcagct	480
tggcgtagtg	tctttcactg	ntttggctgt	cttgagaata	gcattcnacn	ccgactgtgg	540
ttccccanca	gactttagnc	ngttgcccn	ncttgaattg	ccggaccaag	gttaacatag	600
gcttttcggn	tctnaatatt	tttggggctn	gaatanctcg	aaccntttgg	gctggggccat	660
ttaccgcgtn	cnnctgggt	nnnacatttt	tnctggnata	tcccgccctt	tng	713

<210> 261

<211> 722

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (722)

<223> n = A,T,C or G

<400> 261

acgcanttag	gtaccgagct	cggatcccta	gtaacggccg	ccagtgtgct	ggaattcgcc	60
cttagcgtgg	tgcgcggccc	aggtactcct	cagccatgcc	gaaggctcct	ttccgggact	120
cttcgatggc	agacagcagg	gcattgtcct	tctcattctt	caggaagccc	tgcagctctt	180
aaatttaagg	agttacagaa	cggtcgatgc	tgnccgatcac	tgcagctctt	ccaaaccttc	240
ttatatgaga	tgagctctgt	cggaaccagt	gctcaagttt	ttcccacccc	aaactgcctg	300
aattgagggg	tgggggtggg	gagaaggaca	gagagaagag	aaaaagagag	aaagaagana	360
aaggaaaaga	acaacccctc	tgcaagtgtc	gatgtgactg	aagcactaaa	gagtcaaatt	420
aaacaatgaa	gattgcaggg	tccctttaa	aagggtgcac	tgcagncccc	ngagcacanc	480
natcccattc	gnttgngccg	ctncacanat	tctagagaan	tcnnccatca	tgtttgaaan	540
gcncaaaant	gatgggannt	cccgnntacg	cggggactta	attctgcctt	gggaaatcaa	600
ggaanacttt	gnttggangc	ggcanttnaa	anntggcctt	aagaangnng	tgngaatttg	660
ttggccaaac	nantngaaag	gtnttccggc	cgatnggtcc	ctgattttta	aggatttnaa	720
ng						722

<210> 262

<211> 705

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (705)

<223> n = A,T,C or G

<400> 262

acgctttaaa	cnccagcttg	gtaccgagct	cggatcccta	gtaacggccg	ccagtgtgct	60
ggaattcgcc	cttgccgccc	gggcagggtac	ctgatatttt	gaacttttaa	ttgctatcaa	120
atttcagctc	tggttttatg	cattgttgta	atttctcagt	gaatcccagt	gcttctttcc	180
ttcttgaaaa	atgccatttc	gcccaggcgc	ggtgggtcat	gcttgtaatc	ccagcacttt	240
ggtaggccga	ggtgggtgga	tcagctgagg	tctgtagttc	aagaccagcc	tggttaacat	300
gatgaaaccc	tgtctctacc	aaaaatacaa	aaaaaaaacta	gccaggcatg	gtgttgatg	360
cctgtaatcc	cagctactca	ggaggctgag	acaggagaat	cgcttgaacc	tggtgaggtg	420
agggttcagt	gagccaagat	cgcgccactg	cactncaacc	tgggcaacag	agtgagactc	480
catctcaaaa	naannaaaaa	ggaaaatgcc	atttcttggtg	cccantgcca	atatgcacca	540
agaatgttng	taggaactac	tttgggtctg	ctgcagaagt	tcttaatcta	gcattaaaaa	600
tccaacggtt	gatttgatct	cttaaaaatg	ttttcnnant	ttgganctga	aattgagnat	660
aaattacctt	tgcnnmtnaa	ttcaaaaangt	tnaacctnnt	tnann		705

<210> 263

<211> 656

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (656)

<223> n = A,T,C or G

<400> 263

acnccgttgt	accgagctcg	gatccctagt	aacggccgcc	agtgtgctgg	aattcgccct	60
tagcgtggtc	gcggccccgag	gtaccgcggg	ggagaacgcc	aggagctgt	gagagtgtgc	120
agtcgcgttc	ctgctgtccg	gacacttttt	tcctctactg	agactcatct	ggtagatccg	180
caggccagtc	ctcccagggg	ctgaagtgtg	gaaatatggg	ttttctaaga	agattaatct	240
atcggcgtag	accaatgata	tatgtagaat	cttctgagga	gtccagtgat	gagcaacctg	300
acgaagtgga	atcaccaact	caaagtcagg	attctacacc	tgctgaagag	agagaggatg	360
agggagcatc	tgcagctcaa	gggcaggagc	ctgaagctga	tagccaggaa	ctggttcagc	420
caaagactgg	gtgtgagctt	ggagatggtc	ctgataccaa	gagggnttgc	ctgcgaaatg	480
aagagcagat	gaaactgccc	gnagaaggcc	agacctgann	cgatagcagg	acagttcccc	540
gaaactggtg	tagcgcgaat	gtctgtgtca	gagtgccctg	ccaatcaagg	agtgaacctc	600
gggaataagc	atccagctta	aagannccct	ganggttagt	gtctngtgaa	ttncct	656

<210> 264

<211> 752

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (752)

<223> n = A,T,C or G

<400> 264

ggnttgaang	tatacgactc	nctanggcga	attgggccct	ctagatgcat	gctcgagcgg	60
cccgccagt	tgatggatat	ctgcagaatt	cgcccttagc	gtggtcgcgg	ccgaggtacc	120
tttgataatt	cctagacctc	tattttcatt	ctgtgtatta	atgtgaataa	cagatggata	180
ttttaatatt	taaggcagat	ggtaaaacttt	cctataggtc	ttgtgagact	tcgtcttata	240
ggctgaacac	cattcacaaa	atgtaataat	gcttcattcc	ttcaggttga	ggtaaagaac	300
ttgagcaact	ggattagcaa	agctgcaaag	aatgaaatgt	ggcctaagat	gtaattatgt	360
tctctgccct	tcctttgggc	cagggtagtt	ttgcacttga	cacaatggaa	aataggccat	420
aaagcctgaa	aataaaaatg	tctaaacccc	aatctcacag	cacttttagta	ggcttttcac	480
taggcacctt	taaagtattt	tcaacaaaat	actaattaag	ctaccacttc	aaaagagctt	540
caaggaaaag	ctctgctttc	ttataaaaatc	tttttgagac	agagtttccg	ctctgtcag	600
cacaggctgg	agtgcattgg	ccgtgatctc	gactnaaccg	naaccttcgg	cctgctgggt	660

tcaagtgatt ctctagnccct caagcttctg agtaggttgg gattacaggc gcccggncaa 720
ccacacctgg gctaaatttt ggatttctan gn 752

<210> 265
<211> 747
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 265
gngnttttenc nnngcgctct anagcatgct cgagcggccg ccagtgtgat ggatatctgc 60
agaattcgcc cttagcgtgg tcgcgccga ggtaccttg atnattccta gacctctatt 120
ttcattctgt gtattaatgt gaataacaga tggatattgt aatatttaag gcagatggta 180
aactttccta taggtcttgt gagactnct cttataggct gaacaccatt nacnanntgt 240
antaatgctt nattccttca ggcngaggtn nanaacttga gcacctggat tagcagcagc 300
tgcgaagaat gaaatgcngc ctaacatgta attatgnatc tctgnccttc ctttgggcca 360
gggtagtnat gcnctagaca cantggatga tangccatna agcctgannn tagnaatgatc 420
taaaccnnaa tctnncagca ctttattagg ctantcacta ggcactctta agagtnggtt 480
cccnttaata ctagncaacc nnccactcca aaanancctc aagganaagc tntgntntnt 540
tanaaaatct tttcgnnaca cantttnacn cttggcgenc angctggant gcaatggccg 600
tgatctctac tcacccgaan cctcngactg ctgagttcaa gtgattgtct gnccttanct 660
ctccgggacc angnttnggg attancaagc ctcgcgggca annacaggtg nctaattgnt 720
tgcattngcn taaaatnagg acaccng 747

<210> 266
<211> 738
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 266
cgnnmntgaa ggntacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cgcccgccag tgtgatggat atctgcagaa ttcgcccttt cgagcggccg cccgggcagg 120
tacagctgaa gtttgataac aaagaaatat atataagaca aaaatagaca agagttaaca 180
ataaaaaac aactatctgt tgacataaca tatggaaact tttgtcaga aagctacatc 240
ttcttaatct gattgtccaa atcattaaaa tatggatgat tcagtgccat tttgccagaa 300
attcgtttgg ctggatcata gattaacatt ttcgagagca aatccaagcc attttcatcc 360
aagtttttga catgggatgc taggcttctg gtttccattt gggaaatgta ttcttatagt 420
cctgtaaaga ttccacttct ggccacactt cattattggg agtgcccaa gctctgaaat 480
cctgaagagt tgatcaattc tgaatcccat ggaaaagtgg ttcttagtgc tagtcaacaa 540
atatngngc ctatactcca aaggtcactt ggagttgagt natggagctg accccagcat 600
acttttggaa aactggacca agtggttgca ccaccnttaa aaaatttaaa accggnngta 660
ttttaataa ggtggaagaa accttttctt tttttattta aggaattcac ttagcncctta 720
ctaaattcat ggtggggg 738

<210> 267
<211> 731
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 267

gngnntttgn	aagggccctc	tagatgcatg	ctcgagcggc	cgccagtggtg	atggatatct	60
gcagaattcg	ccctttcgag	cggccgcccc	ggcaggtaca	gctgaagttt	gataacaaag	120
aaatatatat	aagacaaaaa	tagacaagag	ttacaataa	aaacacaact	atctgttgac	180
ataacatatg	gaaacttttt	gtcagaaaagc	tacatcttct	taatctgatt	gtccaaatca	240
ttaaaatatg	gatgattcag	tgccattttg	ccagaaatcc	gtttggctgg	atcatagatt	300
aacattttcg	agagcaaatc	caagccattt	tcattccaagt	ttttgacatg	ggatgctagg	360
cttcctgggt	tccatttggg	aaatgtattc	ttatagtcct	gtaaagattc	cacttctggc	420
cacacttcat	tattgggagt	gccc aaagct	ctgaaaatcc	tgaagagttg	atcaatttct	480
gaatccccat	ggaaaagtgg	tttcttagtt	gctagttcag	caaatatggg	gcctatactc	540
caaagtcaa	ctggagttga	gtaatgagct	gaccccagca	atacttctgg	agatctgtca	600
agtggttgca	acaccattaa	aaaatataaa	agcagtagtt	atattaaaat	aatgttgaag	660
aaaacatatn	cctatatatt	tnaaggaatt	tcactaagca	ctactaaatt	tcatgttgtt	720
gggangngtt	a					731

<210> 268

<211> 745

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(745)

<223> n = A,T,C or G

<400> 268

gnnnnntaa	agnanacntc	actatanngc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgcccagt	gtgatggata	tctgcagaat	tgcgccctttg	agcgcccgcc	cgggcaggta	120
cttccacac	aggtttgttg	taaaaattaa	gtgagcta	gtgtataaaa	tacttcagt	180
ctgaataaat	gttggctttt	attatatatt	gttaaaaaac	aacacaggct	gggtatgata	240
gctcacgcct	ataatcctag	catttagggg	ggccaaggca	ggaggattgc	ttgagtcctag	300
gggtttgaga	ccagcctggg	caacatagtg	agaccctatc	tctacaaaat	aaaataaatt	360
agttgggcat	ggtggcacat	gctgtagtc	ccagctactc	aggaggctga	ggtgggagga	420
ttgcttgagc	ccaggaggta	gaggttgcag	tgagctgtga	tcacaccact	gcactccagc	480
gtcggtgacg	gagtgagaac	ctatctcaaa	caaacaaaca	aaaaaaccca	aaacaaacaa	540
aaaaatccag	taaagacaga	gattcctaaa	attctacaat	tctaaaaacc	agtagggctc	600
actgaatata	agagaggcaa	gcaaaaaaatt	actccaatat	tttgagtttg	ggtaacctgg	660
aatatgggtc	atttattgag	taaatagtta	ctgagtccta	actatgtgcc	acacactggg	720
ttaacacttg	gcactgtctc	ttatg				745

<210> 269

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(730)

<223> n = A,T,C or G

<400> 269

gntnnnttt	tnaanccggt	cctnntgcat	gctcgagcgg	cccgccagt	tgatggatat	60
ctgcagaatt	cgccctttga	gcggccgccc	ggcaggtac	ttccacaca	ggtttgtgt	120
aaaaattaag	tgagctaagt	tgtataaaat	acttcagtgc	tgaataaatg	ttggctttta	180
ttatatattg	ttaaaaaaca	acacaggctg	ggtatgatag	ctcacgccta	taatcctagc	240
atttagggag	gccaaaggcag	gaggattgct	tgagtccagg	ggtttgagac	cagcctgggc	300
aacatagtg	gaccctatct	ctacaaaata	aaataaatta	gttgggcatg	gtggcacatg	360
cctgtagtc	cagctactca	ggaggctgag	gtgggaggat	tgcttgagcc	caggaggtag	420
aggttgcagt	gagctgtgat	cacaccactg	cactccagcg	tcggtgacgg	agtgagaacc	480
tatctcaaac	aaacaaacaa	aaaaacccaa	aacaaacaaa	aaaatccagt	aaagacagag	540
attcctaaaa	ttctacaatt	ctaaaaacca	gtagggctca	ctgaatataa	gagaggcaag	600

caaaaaatta	ctccaatatt	ttgagtttgg	gtaacctgga	atatgggtcat	tattgagtna	660
atagttactg	agtcctacta	tgtgccccaca	ctgggtnaac	acttgcactg	tctcttatga	720
aatcttccan						730

<210> 270

<211> 713

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(713)

<223> n = A,T,C or G

<400> 270

aattggggccc	tctagatgca	tgtctgagcg	gccgccagtg	tgatggatat	ctgcagaatt	60
cgcccttttcg	agcggccgcc	cgggcaggta	caaaccaata	gctcctattc	tggaagggtt	120
tcttttttatt	taaaaaaaaat	tcaaacagg	ttaaaagtca	agcaagaagg	gaagagagaa	180
actgggttct	gagaaaaaaa	tgtgccagta	taaaataaac	tctaaatgc	gtgcttgta	240
tctctagtt	tttttttttaa	gttgaatttc	ttttccactg	taacttaaga	tttgagattg	300
aggtttgccg	tccagaacat	accctcagca	gatacagtga	ctaactggaa	agtgcagttg	360
ttcaagggtct	gtcatgctca	atcacctaaa	gctataattt	gnttgatata	tttaagcatgt	420
agacctagt	cagcatggga	gccactcagg	aagtttatgc	aattaataaa	ctttcagcat	480
aattttactat	gaagtatgca	gaatttcacc	ctcttctcca	cacttaacat	ttagttgtat	540
atgtgaactc	tcttttctta	attgggggat	gtagcattat	atagaatgtt	gntaaaggta	600
attttaatcc	tttttgacat	taaccttttt	tttttttgg	aaaccaagtg	atctgccttt	660
cagcaactgg	cttatttttg	gtctttgaaa	ctgngatttt	tatttcattn	gnc	713

<210> 271

<211> 702

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(702)

<223> n = A,T,C or G

<400> 271

gnctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgcccttttcg	agcggccgcc	60
cgggcaggta	caaaccaata	gctcctattc	tggaagggtt	tcttttttatt	taaaaaaaaat	120
tcaaacagg	ttaaaagtca	agcaagaagg	gaagagagaa	actgggttct	gagaaaaaaa	180
tgtgccagta	taaaataaac	tctaaatgc	gtgcttgta	tctctagtt	tttttttttaa	240
gttgaatttc	ttttccactg	taacttaaga	tttgagattg	aggtttgccg	tccagaacat	300
accctcagca	gatacagtga	ctaactggaa	agtgcagttg	ttcaagggtct	gtcatgctca	360
atcacctaa	agctataatt	tgtttgatat	attaagcatg	tagacctagt	gcagcatggg	420
agccactcag	gaagtttatg	caattaataa	actttcagca	taatttacta	tgaagtatgc	480
agaatttcac	cctcttctcc	acacttaaca	tttagttgta	tatgtgaact	ctcctttctt	540
aattgggggaa	tgtncattat	atagaatgtt	ggtaaaggta	attttaatcc	tttttgacat	600
taaccttttt	tttttttttg	ttaaccaagt	gatctgnctt	tttaacaactg	gcttatttgg	660
gtcctttgna	actgggaatt	ttatttcatt	tgnnccctcg	cc		702

<210> 272

<211> 736

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(736)

<223> n = A,T,C or G

<400> 272

gmnnttttgan	nnnnnnnnnn	ntatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcgggccg	cgggcaggta	120
ctttttttta	ttcctcagtt	aaaacatgcc	tggtattctt	tttgtaatac	ttaagcaatt	180
ttatttttaa	gatatactac	ttagttcatc	cgtctccact	tggttttttt	ttttgnnant	240
anngggttgg	ttccnttaan	nccacnggtt	ttaaancat	nnngtcnnn	ggnaaattan	300
mnttantnat	taaanntnnn	tncntngca	aanntccagn	taaaatttta	gtgggggggg	360
gggggttant	acnggnaann	aattaantnc	nggnaatan	tttaannntt	ggnaangnac	420
mntngnnnta	annattattt	mnttnanntt	tttaataann	annaatttta	ntttgnaacn	480
ntggntttta	ntaannggaa	annccaatta	attgggttgg	tgnttttttc	ccagnaaccn	540
ntccntgggc	nggaacncc	ntangggnaa	nttcnagnnn	ntngngggcn	gtncnnaggg	600
nnccaacnt	ngggccancn	tgngggaann	nnnggchnna	nnggttcccn	ggggnaaatg	660
gtattcngtt	cnaatccnnc	aantccaac	ccggagnctt	aangggtaan	nccngggggg	720
cntannagn	gcctaa					736

<210> 273

<211> 715

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (715)

<223> n = A, T, C or G

<400> 273

gngnttttnc	ganngnnnnn	nnnnctgct	cgagcggccg	ccagtgtgat	ggatatctgc	60
agaattcgcc	ctttcgagcg	gccgcccggg	caggtacttt	ttttatttcc	tcagttaaaa	120
catgcctgtt	attctttttg	taatacttaa	gcaattttat	tttaaagata	tactacttag	180
ttcatccgtc	tccacttggt	tttttttttt	gnnantanng	ggttggttcc	nttaanncna	240
cnggtnttaa	anccannnnn	gtcnnnggna	aattannntt	antcnntaaa	mntnnnnnnc	300
ntggnaannn	tccagntaaa	atttnagtgg	gggggggggg	ttaattancg	gnaannantt	360
aantnccgga	naatanttta	annnttggnn	angnacnttn	gnntaagna	ttatttnntt	420
cannttttta	atnantanna	attttaattt	gnaancntgg	mntttannaa	nnggaaannc	480
caattaattg	gttggttgna	tttttccag	naaccnnc	ntgggcngga	acancntaa	540
ggncaaatcn	accaantgnc	ggcgtacna	aggggatcca	acntngggcc	ancctggng	600
naataatggc	cnaantgggt	nccnggggna	aatggnatte	cgttcaaat	ccnccanntc	660
cnaccgggag	ccttaagngg	taaacttggg	ggcctaangg	ggggcctaac	tcaat	715

<210> 274

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (746)

<223> n = A, T, C or G

<400> 274

gnnntnnan	gnntacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtgggtcg	ggccgaggta	120
ccaggtgggc	tgacgcacat	cccctaaaca	ttctggatct	cttactcatc	gtgaaaggca	180
gacgtcttaa	gtctaaagtc	tagggtagga	gtttccattc	tttgaaaaac	caaagatggt	240
tactcttctt	aatgaaactg	agaagaaggt	atctacagaa	aacactgaat	ttaaacaagt	300
tatgaccttg	ttgttggaag	ccatcaagga	cccaagatat	atcaaagaac	aacatctctg	360
tattggccta	caggttcaga	gtgttttgag	gtctgtttta	gcactaatag	gatttttaggc	420
cagcatccag	tcagaagaga	tagttcacag	actcagagtt	ggaaacagat	taaaaaaaa	480
aagatgtcaa	catagaaaat	gatgatagag	tttagttaaa	aaaattcaca	cataaaatta	540
cagttaaaaa	aattcacaca	taaaatagag	tgtttgcata	gcaagacatt	attgcccttc	600
agcctggcag	aaaaacataa	actcaggtgt	atattttata	ataaacattg	nattgaatgc	660
taagaatgat	acactggtga	acatctnctg	aatggttgcc	ttcttgtaaa	tcataccaat	720

tggttagaca attgaaattn ccagct

746

<210> 275

<211> 725

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (725)

<223> n = A,T,C or G

<400> 275

gnnnttaann	ccttcctnt	anatgcatgc	tcgagcggcc	gccagtgga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccagg	tgggctgacg	cacatccct	120
aaacattctg	gatctcttac	tcacgtgaa	aggcagacgc	tctaagtcta	aagtctaggg	180
taggagtttc	cattcttttg	aaaaccaaag	atggttactc	ttcttaatga	aactgagaag	240
aaggatatcta	cagaaaacac	tgaattttaa	caaattatga	ccttgtttgt	tgaagccatc	300
aaggacccaa	gatatatcaa	agaacaacat	ctctgtattg	gcctacaggt	tcagagtgtt	360
ttgaggtctg	tttaagcact	aataggattt	taggccagca	tccagtcaga	agagatagtt	420
cacagactca	gagttggaaa	cagattaaaa	aaaaaaagat	gtcaacatag	aaaatgatga	480
tagagtttag	ttaaaaaat	tcacacataa	aattacagtt	aaaaaaattc	acacataaaa	540
tagagtgttt	gcatagcaag	acattattgc	ccttcagcct	ggcagaaaaa	cataaactca	600
ggtgtatatt	ttataataaa	cattgnattg	aatgctaaga	atgatcactg	ttgaacatct	660
cctgaatggg	ttgccttctt	gtaaatcata	ccaatgggta	gacaattgaa	attccagctc	720
tttct						725

<210> 276

<211> 744

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (744)

<223> n = A,T,C or G

<400> 276

nnnnntgann	gtatacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtgggcgc	ggccgaggta	120
cttctgctgt	ggtaactcaa	gtaaccctcc	gtttaaacca	ggacagacct	atgctgacaa	180
ccatttttat	cactcttagt	ggtattttct	ttctttgaac	atgaatgcat	atttctgctc	240
tttaatggcc	tttggatttt	aagattacat	tcagctagtc	tccttattgc	atggtgtttt	300
attccagtc	caccagcact	cagaacaaca	gcaagtgtgt	gtaacagcgg	gcacaggcgc	360
tccagacgga	aggacctcac	tgacgcagtt	agctcaggta	gagcttattt	ctgtgttcaa	420
ttttcttgtc	atgagaagca	gtgacctcta	agaatttgta	tccctttgtt	cacttctttg	480
ttttaggaga	gaaacttcta	aagcattact	ctaaaagggtg	atagagacag	agacggggcca	540
ttttcatcta	ccccttgtag	agtttaagttt	tattacagta	agttgtgagg	tgagacatga	600
tggctgcagg	cacatagtc	agatctaccc	ttctaaggaa	ataaaacggg	gaaaagtggg	660
tgaatgtcca	atatagaaaa	tttaatcacc	actttcccaa	aaaagaataa	atggaggact	720
ncattggaat	tatggaaatg	aan				744

<210> 277

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (724)

<223> n = A,T,C or G

<400> 277

gnnnnttneg	antgggcccct	ctagatgcat	gctcgagcgg	ccgccagtgt	gatggatatc	60
tgcagaattc	gcccttagcg	tggtcgcggc	cgaggtactt	ctgctgtggt	aactcaagta	120
accctccgtt	taaaccagga	cagacctatg	ctgacaacca	tttttatcac	tcttagtggt	180
attttctttc	tttgaacatg	aatgcatatt	tctgctcttt	aatggccttt	ggtatttaag	240
attacattca	gctagtctcc	ttattgcatg	ttgttttatt	ccagtccac	cagcactcag	300
aacaacagca	agtgtgtgta	acagcgggca	caggcgctcc	agacggaagg	acctcactga	360
cgcagttagc	tcaggtagag	cttatttctg	tggtcaattt	tcttgctcatg	agaagcagtg	420
accctaaga	atttgtatcc	ctttgttcac	ttctttgttt	taggagagaa	acttctaaag	480
cattactcta	aaaggtgata	gagacagaga	cgggccattt	tcactctacc	cttgacagag	540
taagttttat	tacagtaagt	tgtgaggtga	gacatgatgg	ctgcaggcac	atagtcaaga	600
tctacccttc	taaggaaata	aaacggggaa	aagtgggtga	atgtccaata	tagaaaattt	660
aatcaccact	ttccaaaaaa	gaataaatgg	aggactncat	tgtaattatg	gaaatgaaat	720
ttgg						724

<210> 278

<211> 748

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (748)

<223> n = A,T,C or G

<400> 278

gnnnntgaaa	gtatacgact	cactataggg	cgaattgggc	cctctagatg	catgetcgag	60
cggcccgcga	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gtacagctgc	ccaagggcgt	tcgtaacggg	aatgccgaag	cgtgtgaaaa	agggagcggt	180
ggcggaagac	ggggatgagc	tcaggacaga	gccagaggcc	aagaagagta	agacggccgc	240
aaagaaaaat	gacaaaagg	cagcaggaga	gggcccagcc	ctgtatgagg	acccccaga	300
tcagaaaacc	tcaccacgtg	gcaaacctgc	cacactcaag	atctgctctt	ggaatgtgga	360
tgggcttcga	gcctggatta	agaagaaagg	attagattgg	gtaaaggaag	aagccccaga	420
tatactgtgc	cttcaagaga	ccaaatgttc	agagaacaaa	ctaccagctg	aacttcagga	480
gctgcctgga	ctctctcatc	aatactggtc	agctccttcg	gacaaggaag	ggtactagca	540
actaaccatg	gttaaaagg	cttagtcaga	attacaaaaa	caaaacattt	agagtaatac	600
ttatgaatac	aagcataatt	ggttcctcgc	cttctacaaa	taaccatctt	gaaaatgata	660
aaagcaggtt	tcaactgtgg	tcttctctca	ttgagaaggt	gcagatacac	atgggtgatc	720
tactgattta	ccttcttgaa	agtnctcg				748

<210> 279

<211> 727

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (727)

<223> n = A,T,C or G

<400> 279

gnnnnttcga	ntgggcccctc	tngngcatgc	tcgagcggca	cgccagtgtg	atggatatct	60
gcagaattcg	ccctttcgag	cggccgccc	ggcaggtaca	gctgcccag	ggcggttcgta	120
acgggaattg	cgaagcgtgt	gaaaaaggg	gcgggtggcg	aagacgggga	tgagctcagg	180
acagagccag	aggccaagaa	gagtaagacg	gccgcaaaga	aaaatgacaa	agagggcagca	240
ggagagggcc	cagccctgta	tgaggacccc	ccagatcaga	aaacctcacc	cagtggcaaa	300
cctgccacac	tcaagatctg	ctcttggaat	gtggatgggc	ttcgagcctg	gattaagaag	360
aaaggattag	attgggtaaa	ggaagaagcc	ccagatatat	tgtgccttca	agagaccaa	420
tgttcagaga	acaaactacc	agctgaactt	caggagctgc	ctggactctc	tcatcaatac	480
tggtcagctc	cttcggacaa	ggaaggggtac	tagcaactaa	ccatgggtta	aaggtcttag	540
tcagaattac	aaaaacaaaa	catttagagt	aatacttatg	aatcaagcat	aattggttcc	600
tcgccttcta	caaataccat	ctttgaaaat	gatnaaaagc	aggtttcaac	tgtggttcct	660

ctctcanttg aaaagggtcag atcccatggg tgatctactg atttaccttc tgaaaagtac
ttggccg

720
727

<210> 280
<211> 751
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (751)
<223> n = A,T,C or G

<400> 280
gnnmntgann gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cgccgccag tgtgatggat atctgcagaa ttccgcccta gcgtggtcgc ggccgaggta 120
ctcatgtatt tttttttttt tccagatctc tttccccaag ttgctattgt aagagtattc 180
tgctgcgtgt ggatgcagtt atacacatta aagcagatct ggagtctgaa gtagctataa 240
agcagctata aaacagaaat acatgcatag ctgcagaaac catgatagggt agaggacttt 300
tcttttggtt ttgttttggt ttgttttggt ttgtttttgg ttttacagag aagagatttt 360
tattacaaaag aaaaaaattc cagtgaattg tgcagaaatg ctggttttta caccatccta 420
aagaaaaact ttacaagggt gttttggagt agaaaaaagg ttataaaagt ggatccttaa 480
attgtaaaat taaccattga gtgtcaaaagt tctaaaagca gaactcattt tgtgcaatga 540
acataaggaa agactactgn ataggttttt tttttctcct tttaaatgaa gaaaagcttt 600
gcttaagggt tgcatacttt tattggagta aatctgaatg atcctactcc tttggagtaa 660
aactagtgtc taccagtttc caattggatt taacttctgg ggtggaattt ggaaaaaaa 720
agaannnnng aaaaagaaaa cctaanttaa n 751

<210> 281
<211> 727
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (727)
<223> n = A,T,C or G

<400> 281
gnnnttcgan tgggccctct agatgcattg tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggccg aggtactcat gtattttttt tttttccag 120
atctctttcc ccaagttgct attgtaagag tattctgctg cgtgtggatg cagttataca 180
cattaaagca gatctggagt ctgaagtagc tataaagcag ctataaaaca gaaatacatg 240
catagctgca gaaaccatga taggtagagg acttttcttt tggttttggt ttgttttggt 300
ttgttttggt tttggtttta cagagaagag atttttatta caaagaaaaa aattccagtg 360
aattgtgcag aaatgctggg ttttacacca tcctaaagaa aaactttaca aggggtgttt 420
ggagttagaaa aaagggttata aagttggaat cttaaattgt aaaattaacc attgagtgtc 480
aaagttctaa aagcagaact ctttttggtc aatgaacata aggaaagact actgnatagg 540
tttttttttt ctctttttta atgaagaaaa gctttgctta aggggttgcac acttttattg 600
gagtaaatct gaatgatcct actccttttg agtaaaacta gngcttccag tttccaattg 660
gatttaactt ctggntggaa tttgnaaaaa aaagaanaaa aggaaaanga aaccctaant 720
naaatag 727

<210> 282
<211> 749
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (749)
<223> n = A,T,C or G

<400> 282
 tnnaaaagnaa gctctttact cactatnngg gccaattggg cctctagat gcatgctcga 60
 gcggccgcca gtgtgatgga tatctgcaga attctncctt cgagcgccg cccgggcagg 120
 tacttttttt tttttttttt tttttttttt ttttttnaaac tactaggatt tactgttagga 180
 taaaagctnt acatggccct gcntacaaac tttctgcata cttctgcaa tttttatgcn 240
 ttactnaatc cattaaaaat caccttgga naaactgcaa acncantana aactaaatga 300
 natatgcaca gagaacanca aaaatagtaa ttnaagtcc catacaacat caagtgtgtn 360
 cagtctattt tnggttcttc gggttctctt taaaattgaa ttgagtttgn atatgcatat 420
 gtatgttagga gtggaggatg gaattaatta tcccaaacat cctacantca ctctctaat 480
 atttctttng ttaacatgca aatctgttct cttcattacg gngatactgc atttacatta 540
 caacacantt agagatcatt aactttctcc tttataatca gccattttca caggcctttg 600
 atatacaagc acctataata tattcttact catctcacac tttcatttac caaagtgtca 660
 aaacaacatt tttacatcat tgatatttgg ttnantttct gcaanctggc tgttanaaaa 720
 tgattacttc tnttaaatta ctttttanc 749

<210> 283

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc feature

<222> (1) ... (730)

<223> n = A,T,C or G

<400> 283
 gtctntgaan cnggnccctt ngatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
 cagaattcgc ccttcgagcg gccgcccggg caggtaactt tttttttttt tttttttttt 120
 tttttttttt aaactactag gatttactgt aggataaaag cntacatgg ccttcgatac 180
 aaactttntg cactactntg caaattttta tgcattactc aatccattaa aaatcacctt 240
 ggaanaaaact gcaaacncaa tagaaactaa atganatagt cacagagaac aacaaaaata 300
 gtaatttaag ttcccataca acatcaagtg tgttcagtct atttttgggt cttcgggttc 360
 tctttaaaat tgaattgagt ttgtatatgc atatgtatgt aggantggag gatggaatta 420
 attatcccaa acatcctaca ctccactctc taatatttct tttgttaaca tgcaaactctg 480
 ttctcttcat tacgnggata ctgcatttac attacaacac aattagagat cattaacttt 540
 ctctcttata atcagccatt ttcacaggcc tttgatatac aagcacctat aatatattct 600
 tactcatctt acactttcat ttaccaaagt gtcaaaaaca acattttttac atcattggat 660
 atttggttta gtttctgcaa nctggctttt anaaaaatga ttacttctct taaattacct 720
 tttaccctca 730

<210> 284

<211> 739

<212> DNA

<213> Homo Sapien

<220>

<221> misc feature

<222> (1) ... (739)

<223> n = A,T,C or G

<400> 284
 gnnntnaaag tatacgactc actatagggc gaattgggccc ctctagatgc atgctcgagc 60
 ggccgccagt gtgatggata tctgcagaat tcgcccttag cgtggctcgc gccgaggtac 120
 aacataaagc aacagagagg tcttcatgtt tgggaagtgg ctgggcagga tgccaaaccc 180
 caaatgactt attgagcaat ttctaaacca aacagagagg taggaaaaga ggatgggggt 240
 caggggtgga ggctgtggaa aggggagagc gagggctgaa gagaatggca gccatacagg 300
 tgttttgttt ttatttccac atctgaggac tgagagtctg atttgctgcc tgtccatttc 360
 cgccactcat tgactgtcca tagttcatca tgccattggc tccatagaag ttcattccag 420
 ccatctgctg ggtcatctga gtaaggttcc attgcagctg ctgagctggc tggaccctat 480
 acacagtctg gggcatagct gccatgcctg ccatgtagcc agcctgctgg gtggctcatc 540
 ttccattcgg cacaccctac attgatgctt gcatgccacc catatagcct gcaggcatgg 600

ccatgggggc	aaccatccca	gaactnctgc	tgagcaacca	tgctactgg	tggaagcatc	660
atgcttccca	ttatgctgtt	angangtgta	ccccngggaa	actggggtag	ctgtgggata	720
tccatctgan	cgggaccat					739

<210> 285

<211> 721

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(721)

<223> n = A,T,C or G

<400> 285

gnnnttcgan	tgggccctct	ngatgcatgc	tcgagcggcc	gccagtgtga	tgatattctg	60
cagaattcgc	ccttagcgtg	gtcgcggcac	gaggtacaac	ataaagcaac	agagaggtct	120
tcatgttttg	gaagtggctg	ggcaggatgc	caaaccceaa	atgacttatt	gagcaatttc	180
taaaccnaac	agagaggtag	gaaaagagga	tggggggtcag	gggtggaggc	tgtggaaagg	240
ggagagcag	ggctgaagag	aatggcagcc	atacaggtgt	tttgttttta	tttccacatc	300
tgaggactga	gagctgatt	tgctgcctgt	ccatttcgcg	cactcattga	ctgtccatag	360
ttcatcatgc	cattggctcc	atagaagttc	atcccagcca	tctgctgggt	catctgagta	420
aggttccatt	gcagctgctg	agctggctgg	accccatata	cagtctgggg	catagctgcc	480
atgcctgcca	tgtagccagc	ctgctgggtg	gtcatcattc	cattcggcac	acccatcatt	540
gatgcctgca	tgccacccat	atagcctgca	ngcatggcca	tgggggcaac	catcccagaa	600
ctcctggctg	agcaaccatg	cctactgggtg	gangcatcat	gcttcccat	atgctgttag	660
gangtgacc	ccggggaanc	tggggtagct	gtgggatata	catttaaccg	gagccatgaa	720
c						721

<210> 286

<211> 757

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(757)

<223> n = A,T,C or G

<400> 286

gnnnnttaaa	gnntacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggcccgcga	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gacgcggggg	ttgcaccatg	gcgtccatgg	ggaccctcgc	cttcgatgaa	tatgggcgcc	180
ctttcctcat	catcaaggat	caggaccgca	agtcccgctt	tatgggaatt	gaggccctca	240
agtctcatat	aatggcagca	aaggctgtag	caaatacaat	gagaacatca	cttggaccaa	300
atgggcttga	taagatgatg	gtggataagg	atggggatgt	gactgtaact	aatgatgggg	360
ccaccatctt	aagcatgatg	gatgttgatc	atcagattgc	caagctgatg	gtggaaactgt	420
ccaagtctca	ggatgatgaa	attggagatg	gaaccacagg	agtgggtgtc	ctggctgggtg	480
ccttgttaga	agaagcggag	caattgctag	accgaggcat	tcacccaatc	agaatagccc	540
gatggctatg	agcaggctgc	tcgcgttgct	attgaacacc	tggaacaagat	cagcgatagc	600
gtccttggtg	acataaagga	caccgaaccc	ctgattcaga	cagcaaaaaa	ccacgctggg	660
cttncaaaag	tggtcaacag	ttgtcaccga	cagatggctt	gaaaattgct	gtgaaatgcc	720
cgtccttact	gtaaccagat	atngaaccgg	aaaagac			757

<210> 287

<211> 726

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(726)

<223> n = A, T, C or G

<400> 287

gnnnnactga	tttctggctc	gaagttgnat	ntgcggncgc	cagtgtgatg	gatatctgca	60
gaattcgccc	tttcgagcgg	ccgcccgggc	aggacgcggg	ggttgcacca	tggcgctccat	120
ggggaccctc	gccttcgatg	aatatgggcg	ccctttcctc	atcatcaagg	atcaggaccg	180
caagtcccg	cttatgggac	ttgaggccct	caagtctcat	ataatggcag	caaaggctgt	240
agcaaatata	atgagaacat	cacttggaac	aaatgggctt	gataaatga	tgggtggataa	300
ggatggggat	gtgactgtaa	ctaattgatg	ggccaccatc	ttaagcatga	tggatgttga	360
tcacagatt	gccaaactga	tgggtggaact	gtccaagtct	caggatgatg	aaattggaga	420
tgggaaccaca	ggagtgggtg	tcctggctgg	tgcttgttta	gaagaagcgg	agcaattgct	480
agaccgaggc	attcacccaa	tcagaatagc	ccgatggcta	tgagcaggct	gctcgcgttg	540
ctattgaaca	cctggacaag	atcagcgata	gcgtccttgn	tgacataaag	gacaccgaac	600
ccctgattca	gacagcaaaa	accacgctgg	gctccaaaag	tgggtcaacag	ttgtcaccga	660
cagatggctg	aaaatgctgt	gaatgccgtc	ctnctgtanc	agatatngaa	ccggaaaaga	720
ccttga						726

<210> 288

<211> 743

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (743)

<223> n = A, T, C or G

<400> 288

gnnntganng	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggcgcgcagt	gtgatggata	tctgcagaat	tcgcccttcg	gccgcccggg	caggtagctt	120
ttacctaata	ttctagccac	tttaatttgg	agagtttcca	gagcaaagg	cacagatccc	180
aggcataaca	acgcttttgc	tatacagcaa	ccaatatctt	gtcaacccaa	gaaagtccct	240
ccattgatac	ctagtagaaa	tagcccagtt	tttaaagtcc	tcaaaactgt	aacaaattac	300
ttgtttttta	aatttaactt	aaattaatac	aatcagattt	ttgtgttatt	tgggtattag	360
agtatgttaa	agcacatata	tcccagagac	atagagtttc	cgtttcaaaa	agtcatgcat	420
tcattgtgtg	taatgacaat	cctatcctga	cccgctatgt	gacttgtatc	tctaaaccat	480
aggcttttct	gaatttttatc	tgttaattta	accctgattt	ctcagcagca	gcttctcttt	540
gtaaatagac	ttgcctcttc	tgtgtctgac	ctctgctcct	cataatcaga	ttaactcaga	600
taaagctgct	tcagggaaga	ggtcaaaacc	gttgccaaaa	atagtagttg	cctacttca	660
gtctattttc	aacagagtag	cccaggagat	ctgtcacacc	aaagtccaat	cagccctact	720
ggtagcactc	tgntcacaag	ccn				743

<210> 289

<211> 726

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (726)

<223> n = A, T, C or G

<400> 289

gnnnnnactc	gcagtcctgc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttcggcc	gcccgggcag	gtacctttta	cctaaaaattc	tagccacttt	120
aatttggaga	gtttccagag	caaagggcac	agatcccagg	cataacaacg	ctttgcgtat	180
acagcaacca	atatcttctc	aacccaagaa	agttcctcca	ttgataccta	gtagaaatag	240
cccagttttt	aaagtcttca	aaactgtaac	aaattacttg	tttttaaaat	ttaacttaaa	300
ttaataacaat	cagatttttg	tgttatttgg	gtattagagt	atgttaaagc	acatatatcc	360
cagagacata	gagtttccgt	ttcaaaaagt	catgcattca	tgtgtgctaa	tgacaatcct	420
atcctgacct	gctatgtgac	ttgtatctct	aaaccatagg	ctttcctgaa	ttttatctgt	480
taatttaacc	ctgatttctc	agcagcagct	tctcttttga	aatagacttg	cctcttctgt	540

gtctgacctc	tgctcctcat	aatcagatta	actcagataa	agctgcttca	gggaagaggt	600
caaaaccgtt	gcaaaaaata	gtagttgcc	tacttcagtc	tattttcaac	agagtagcca	660
ggagatctgt	tcacacaaa	gtccaatcag	ccctactggt	agcactctgc	tcacaagcct	720
ncagtg						726

<210> 290

<211> 740

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

<400> 290

gnnnnngaaag	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccaggt	gtgatggata	tctgcagaat	tcgcccttag	cgtggtcgcg	gccgaggtac	120
ccagatgtct	ttctcggta	ccttcccag	accatttaag	acctccctag	ctgctcgctc	180
tccagcctca	actgcccctt	ccatgtagcc	gtccacttt	gtggcagctc	ctgtgcccgc	240
aaagaaaatc	ctgcccacgg	gttgacgaat	cacccttcca	tattgagtca	tgatcccagg	300
agggaagtag	gccgtgtagc	agccccaga	gtacctgccc	ggcgggccgc	tcgaaagggc	360
gaattccagc	acactggcgg	ccgttactag	tggatccgag	ctcggtacca	agcttggcgt	420
aatcatggtc	atagctgttt	cctgtgtgaa	attgttatcc	gctcacaatt	ccacacaaca	480
tacgagccgg	aagcataaag	tgtaaagcct	ggggtgccta	atgagtgcgc	taactcacat	540
taattgcgtt	gcgctcactg	cccgttttcc	agtcgggaaa	cctgtcgtgc	cagctgcatt	600
aatgaatcgg	ccaacgcgcc	ggggagaggc	ggnttgcgta	ttgggcgctc	ttncgctttc	660
tngctcactg	actcgtcgcg	ctcggtcggt	cggctgcggc	nagcgggtatc	agctcattaa	720
angcggtaat	acggtatccn					740

<210> 291

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 291

gnnnnnnncna	ntgggccctc	tngngcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccag	atgtctttct	cggtcacctt	120
cccagagacca	tttaagacct	ccctagctgc	tcgttctcca	gcctcaactg	ccccttccat	180
gtagccgctc	cactttgtgg	cagtctctgt	gcccgcgaag	aaaatcctgc	ccacgggttg	240
acgaatcacc	cttccatatt	gagtcattgat	cccaggaggg	aagtaggccg	tgtagcagcc	300
cccagagtac	ctgcccgggc	ggccgctcga	aagggcgaaat	tcagcacac	tggcgggcgt	360
tactagtggga	tcagagctcg	gtaccaagct	tggcgtaatc	atgggtcatag	ctgtttcctg	420
tgtgaaattg	ttatccgctc	acaattccac	acaacatacg	agccggaagc	ataaagtgtg	480
aagcctgggg	tgoctaata	gtgagctaac	tcacattaat	tgcgttgccg	tcactgcccc	540
ctttccagtc	gggaaacctg	tcgtgccagc	tgcattaatg	aatcgcccaa	cgcgcgggga	600
gaggcggttt	gcgtattggg	cgtcttcccg	cttctcgcgt	cactgactcg	ctgcgcttng	660
nccgtccggt	tgccgcagcg	gtataactna	ctcaaaggcg	gtaataccgg	tatncacaga	720
atca						724

<210> 292

<211> 740

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(740):

<223> n = A,T,C or G

<400> 292

gnnnnngnang	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtgggcgc	ggccgaggtg	120
cagaaagaat	caaagaacat	atatatatat	taagtttcat	tccaacctac	aaagagcctg	180
cacttaaaag	tcttaaagg	ttcctgaatc	atggaaatctc	aacttacctg	ccaattaatc	240
cagttctctc	tttttaaatg	cagactccaa	ccttaaacag	aaggcatatt	ctagctgact	300
tctaagtgtg	tccaaagcat	acctcagaga	gccaagtggg	ctgtgttcaa	tacctattct	360
ttctatagaa	tctcaaaagt	ggcagtatga	tgaagagaaa	agctactttt	tctcctaaaa	420
ataccccctt	tcacatcag	tgtgttgatc	tttttgcatc	acaaagaata	gacattctaa	480
atgttcctct	ccacacagaa	agacataaga	gagaatgtga	gtatgagtga	gagtggtgag	540
gtaagttgag	ggatagtttg	ctatccaaaa	tgaatcattt	tgaagatgac	tttgtaaaga	600
agtaatatag	ttaaaaatct	caagacatga	gattgangan	ggcagggaaa	taaaggacct	660
angaatggaa	aagagttaca	gcccatgtga	atacatcac	aaacctacca	ggttatttct	720
gngaattctc	acacagggtg					740

<210> 293

<211> 723

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(723)

<223> n = A,T,C or G

<400> 293

gnnnnnnncn	annggccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtacaga	aagaatcaaa	gaacatatat	120
atatattaag	tttcattcca	acctacaaag	agcctgcact	taaaagtctt	aaaggtttcc	180
tgaatcatgg	aatctcaact	tacctgccaa	ttaatccagt	tctctctttt	taaagtcaga	240
ctccaacctt	aaacagaagg	catattctag	ctgacttcta	agtgtgtcca	aagcatacct	300
cagagagcca	agtggtctgt	gttcaatacc	tattctttct	atagaatctc	aaaagtggca	360
gtatgatgaa	aagaaaagct	actttttctc	ctaaaaatac	cccccttcat	catcagtgtg	420
ttgtcatttt	tgcatacaca	agaatagaca	ttctaaatgt	tcccttccag	acagaaagac	480
ataagagaga	atgtgagtat	gagtgagagt	gtgtaggtaa	gttgagggat	agtttgctat	540
ccaaaatgaa	tcattttgaa	gatgactttg	taaagaagta	atatagttaa	aaatctcaag	600
agcatgagat	tganganggc	agggaaataa	angcctagga	atggaaaaga	gttaacagcc	660
catgtgaata	catagcaca	acctaccagg	ttatttctgg	gaatctnacc	agtttgctgg	720
aaa						723

<210> 294

<211> 736

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(736)

<223> n = A,T,C or G

<400> 294

gnnnnnnnna	gaccgactca	ctatagggcg	aattggggcc	tctagatgca	tgctcgagcg	60
gcccgcagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcggccggc	cgggcaggta	120
cctgggatta	caggcaccca	ccaccacgcc	tggtcaattt	ttttttgtat	cttttagtagg	180
gttttgccat	gttggccagg	ctggtcttta	actcctacct	cgtgatccac	ccgcctcggc	240
cccccaaagt	gctaggacca	caggcgtgag	ccaccacgcc	cagccccctg	tctctttttt	300
taaaacacaa	tttaaaagca	gaaagaaaaa	atctgtgctg	tttagactca	gattcttaat	360
tagctagtat	ttcttaattc	aatcaataaa	ttattaagac	cttttctactg	ctcccttttt	420
aaagtcttct	ttggagtgtg	ttaagtgtct	cttattacca	agctctcaaa	gagaagataa	480

aattaaaatc	tgatgggtaa	ccattttaaat	aagacaactg	gggtaaccca	tttctccagg	540
acccctctct	gcaacagaga	gctattctct	ttctttggcc	tagtaaacct	ctgctcttaa	600
cctttaaaaa	aaaaaaaaaa	gtacctcggc	cgcgaccacg	ctaanggcca	attccagcac	660
actggcggcc	gttactagt	gatccgaact	cgggtccaact	tggcgtaatc	atggcatagt	720
ggttctctng	tgaaan					736

<210> 295
 <211> 725
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(725)
 <223> n = A,T,C or G

<400> 295						
gnnnnnnnnn	annnggccct	ctagatgcat	gctcgagcgg	ccgccagtgt	gatggatatc	60
tgcagaattc	gccctttcga	gcggccgccc	gggcaggtag	ctgggattac	aggcaccac	120
caccacgcct	ggctaatttt	tttttgatc	tttagtaggg	ttttgccatg	ttggccaggc	180
tggtctttta	ctcctaccte	gtgatccacc	cgcctcgccc	ccccaaagt	ctaggaccac	240
aggcgtgagc	caccacgccc	agccccctgt	ctcttttttt	aaaacacaa	ttaaaagcag	300
aaagaaaaaa	tctgtgctgt	ttagactcag	attcttaatt	agctagtatt	tcttaattca	360
atcaataaat	tattaagacc	ttttcactgc	tcccttttta	aagtcttctt	tggagtgtat	420
taagtgtctc	ttattaccaa	gctctcaaag	agaagataaa	attaaaatct	gatgggtaac	480
catttaataa	agacaactgg	ggtaacccat	ttctccagga	cccctctctg	caacagagag	540
ctattctctt	tctttggcct	agtaaacctc	tgctcttaac	ctttaaaaaa	aaaaaaaaag	600
tacctcgccc	gcgaccacgc	taagggcgaa	ttccagcaca	ctggcgcccg	ttactagtgg	660
atccgaactc	ggtaccaagc	ttgcgtaatc	atggcatagc	tggttcctgt	gtgaaatggt	720
atccg						725

<210> 296
 <211> 742
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(742)
 <223> n = A,T,C or G

<400> 296						
gnnnnnnnnn	nnacaaanct	gggtagggcg	aattgggccc	tctagatgca	tgctcgagcg	60
gccgccagt	tgatggatat	ctgcagaatt	cgccctttcg	agcggccgccc	cgggcaggta	120
ccatgctgac	ttcttggtat	cttttaaggc	ctaattttcc	cttccttgag	attactgtag	180
tgtgttccag	ctaatttcta	tttggaacg	agttggaaca	gctgaaaact	aggtattatt	240
gaaggcaaag	cagcctcagc	tcagtttttt	atcagctcat	ttgggaagtt	tttttttttt	300
ttttttttta	attaattaga	aagtaggctg	ggcacgggtg	ctcatgccta	taatcccagc	360
acttggggag	gccgaggatc	tcctctctgg	tggatcactt	gagggcagga	gttaagagac	420
catcctggcc	aacatgatga	aaccctgtct	ctactaaaaa	tacaaaaaagt	agctgggcgt	480
ggtggcatac	tcttacaatc	ccagctactt	gggaggctga	ggcaggagaa	tcacttgaa	540
ctaggaagca	gaggttgtag	tgggccaaga	tcacaccact	atactctagc	ctgggcgaca	600
gaagtgggga	aaaaagtagg	acccctgtcc	tatattcang	gttttctcac	atatatgaac	660
ccatctaaat	tctacgttgg	taaaaggaac	ctaagggttaa	ttagnctata	cttattttaag	720
aaccattntg	gggnggagat	gg				742

<210> 297
 <211> 728
 <212> DNA
 <213> Homo Sapien

<220>

<221> misc_feature
 <222> (1) ... (728)
 <223> n = A,T,C or G

<400> 297

tnnnntttga	anncnacnct	ctagngcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	ccctttcgag	cgcccgcccg	ggcaggtacc	atgctgactt	cttgggtatct	120
tttaaggcct	aattttccct	tccttgagat	tactgtagt	tggtccagct	aatttctatt	180
tggaacgag	ttggaacagc	tgaaaactag	gtattattga	aggcaaagca	gcctcacgtc	240
agttttttat	cagctcattt	gggaagtttt	tttttttttt	tttttttaat	taattagaaa	300
gtaggctggg	cacggtggct	catgcctata	atcccagcac	ttggggaggc	cgaggatctc	360
ctctctgggtg	gatcacttga	gggcaggagt	taagagacca	tcctggccaa	catgatgaaa	420
ccctgtctct	actaaaaata	caaaaagtag	ctgggcgtgg	tggcatactc	ttacaatccc	480
agctacttgg	gaggctgagg	caggagaatc	acttgaacct	aggaagcaga	ggttgcatgt	540
ggccaagatc	acaccactat	actctagcct	gggcgacaga	agtggggaaa	aaagtaggac	600
ccctgtccta	tattcangtt	tttctcacat	atatgaacct	atctaaattc	tacgttggtg	660
aaggtanctt	aagttaatta	gnctatactt	atttaaganc	aatatggggt	gaaaatggat	720
tttttttn						728

<210> 298

<211> 745

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (745)

<223> n = A,T,C or G

<400> 298

gnnnnnnttna	nnnnnatacga	ctcactatat	agggcggaatt	gggcccctcta	gatgcatgct	60
cgagcggccg	ccagtgtgat	ggatatctgc	agaattcgcc	cttagcgtgg	tcgcggccga	120
ggtacccacg	ttttgctcca	cactccttga	cgcagggggc	tcggacacaa	acccctgtca	180
ccaggagag	cagtcagcac	tacttgggag	ggctaaaggg	aaatttggaa	ataaaaattcc	240
aaagtttgga	gtaaaaaaat	tcaagtgttg	attttatatt	ctttcccttt	ctgacacagc	300
ctaaagcgta	gggggaacat	gtgtttatct	gtgggagata	aacaagatgg	agtcccaaag	360
actttaacaa	aatatttttt	taaaaatcca	ctagaataga	aaatacatta	tttagatata	420
ctttatgctg	agagttagta	tatatgcttg	tcctatttaa	acttgtgaga	aaaagtggta	480
tcccttgata	catttagaaa	tatgggggct	atcttgtttc	attgtggggg	tggggcagaa	540
ggagaataaa	tgcaggatga	ccctgttgaa	ggaatcttag	catggccaac	aggggacgtt	600
tccagtcgat	taccaggaaa	tgcaagcctt	ggggtttcta	ctggtgggtg	ggctgtcatg	660
aacttttaaaa	tccaaagcct	agacaaggaa	aagtgttaga	ccaattgaaa	agcaatccac	720
cctttttttt	tttttttttt	ggctt				745

<210> 299

<211> 733

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (733)

<223> n = A,T,C or G

<400> 299

gnnnnnnnnn	nnnnnnncct	ctagatgctg	ctcgaacggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcgcc	gaggtaccca	cgttttgctc	cacactcctt	120
gaccgcagg	gctcggacac	aaacccctgt	caccaggaga	gtcagtcagc	actacttggg	180
agggctaaag	ggaaatttgg	aaataaaatt	ccaaagtgtg	gagtaaaaaa	attcaagtgt	240
tgattttata	ttctttccct	ttctgacaca	gcctaaagcg	tagggggaac	atgtgtttat	300
ctgtgggaga	taaacaagat	ggagtcccaa	agactttaac	aaaatatatt	tttaaaaatc	360
cactagaata	gaaaatacat	tatttagata	tactttatgc	tgagagttag	tatatatgct	420

tgctctat	aaactt	gtga	gaaaa	agtgg	tatccct	tga	tacatt	taga	aatat	ggggg	480
ctatctt	gtt	tcatt	gtggg	gggtggg	cag	aaggaga	aata	gccagga	tgacc	ctgtt	540
gaagga	atct	tancat	ggcc	aacaggg	gac	gtttcc	agtc	gattacc	agg	aaatg	600
cttgggg	gttt	ctact	gggtg	tgggg	ctgtc	atgaac	nttt	aaaat	ccaaa	gcctag	660
aggaaa	agt	ttagan	ccan	tggaaa	agcc	attccag	ccc	tttttt	tttn	nnnttt	720
gcttttc	cacc	aca									733

<210> 300

<211> 741

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(741)

<223> n = A,T,C or G

<400> 300

gnnnntg	ann	gtata	cgaac	tcact	atag	gcgaat	tggg	ccctc	tagat	gcatg	ctcga	60
gcggccg	cca	gtgtg	atgga	tatct	gcaga	attcg	ccctt	tcgag	cggcc	gccc	gggcag	120
gtacgtag	tc	tagg	ccatat	gtgtt	ggaga	ttgag	actag	taggg	ctagg	cccac	cgctg	180
cttcgcag	gc	ggcaa	agact	agtat	ggcaa	taggc	acaat	attgg	ctaag	agggag	tggg	240
tggttgagg	gt	tatga	gagta	gctata	aatga	acagc	gatag	tattat	tcct	tctagg	caca	300
gtagggag	ga	tatga	ggtgt	gagcg	atata	ctagt	tattcc	tagaag	tgag	atgg	taaatg	360
ctagtata	aat	atttat	gtaa	atgag	ggggc	ccgcg	tactc	aagt	gggtc	ctgc	ctctca	420
gtggtgg	cct	tggtc	ttcaa	gtttc	agcaa	ttctg	ggaag	ccaag	gacac	ctcc	atctcc	480
tcctccct	ga	tctgc	aaactc	atcta	agagc	agctt	ttctca	ctgga	aatgtc	ttgt	gtttta	540
ggaaca	agaa	tcct	gtttc	cggtt	tgggt	gcca	agtgc	acct	actgga	tcca	accag	600
gattggag	at	acttt	gcaga	acaca	acatc	atctg	gcaca	tgacc	agcca	tggt	gtttca	660
ctttcaca	aat	ttcag	cttnc	ttcact	gatt	gcagc	ataat	cgngg	tcaac	acct	tcaaga	720
ccaagg	ctga	tgtgg	gccgc	t								741

<210> 301

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 301

gnnnnnt	ncn	antgg	gccct	ctngn	gcatt	gctcg	agcgg	cacg	ccagt	tgatg	gatag	60
ctgcaga	aatt	cgcc	ctttcg	agcgg	ccgcc	cgggc	caggta	cgtag	tctag	gccat	atagt	120
ttggag	attg	agact	agtag	ggct	aggccc	accg	ctgctt	cgcag	gcggc	aaag	actagt	180
atggca	atag	gcaca	atatt	ggcta	agagg	gagt	gggtgt	tgagg	ggttat	gagag	tagct	240
ataat	gaaca	gcgat	agtag	tattc	cttct	aggc	acagta	gggag	gatag	gaggt	gtgag	300
cgata	tacta	gtatt	cctag	aagt	gagatg	gtaaa	tgcta	gtata	aatatt	tatgt	aaatg	360
agggg	ccccg	cgtact	caag	tgggt	ctctg	cctct	caagt	gtggc	cttgg	tcttc	aaagtt	420
tcagca	attc	tggga	agcca	aggac	acctc	catct	cctcc	tcct	gatct	gcaact	catc	480
taagag	cagc	tttct	caactg	gaat	gtcttg	tgttt	aaagga	acaag	aatcc	ctgtt	tccgg	540
tttgg	gtgc	caagt	gcacc	tact	ggatcc	aacc	caggat	tgga	gatact	ttgc	agaaca	600
caacat	catc	tggca	catga	ccagc	catgg	tgttt	caactt	tcaca	aatctc	agctt	nccttc	660
actgat	tgc	cata	atcgtg	gtca	acacct	tcaag	accan	ggct	gatgt	ng	ccgntaca	720
ngga												724

<210> 302

<211> 745

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(745)

<223> n = A,T,C or G

<400> 302

gnnnntgaaa	gtntanacga	ctcactatag	ggcgaattgg	gccctctaga	tgcattgctcg	60
agcgggccgcc	agtgtgatgg	atatctgcag	aattcgccct	ttcgagcggc	cgcccgggca	120
ggtactattc	cggatataca	agatcactgg	gagatgttga	tgatggagac	acagtgcacag	180
atttcatggc	ccaagagcga	gaaagaggca	ttactattca	atcagctgct	gttacatttg	240
attggaaagg	ttatagagtc	aatctaattg	atacaccagg	tcatgtggac	tttaccttgg	300
aggttgagcg	gtgcctaaga	gtgttgatg	gtgcagtggc	tgtatttgat	gcctctgctg	360
gtgtagaggc	ccagactctc	acagtatgga	ggcaagctga	taaacacaat	atacctcgaa	420
tctgtttttt	aaacaagatg	gacaaaactg	gagcaagctt	taagtatgca	gttgaaagca	480
tcagagagaa	gttaaaggca	aagcctttgc	ttttacagtt	accaattggg	gaagccaaaa	540
ctttcaaaag	agtgggtgat	gtagttaatg	aagaaaaact	tctttggaat	tgcaattcaa	600
atgatggaaa	agactttgag	agaaagcccc	tcttggaat	gaatgatcct	gaattgctga	660
aggaaacaac	tgaagcaagg	aatgccttaa	ttgaacaagt	tgagaattt	ggatgatgaa	720
ttgctgactt	gggtttanaa	naaat				745

<210> 303

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 303

gnnnntcgan	tgggcccttc	tagatgcattg	ctcgagcggc	cgccagtggtg	atggatatct	60
gcagaattcg	ccctttcgag	cggccgcccc	ggcaggtact	attccggata	tacaagatca	120
ctgggagatg	ttgatgatgg	agacacagtg	acagatttca	tggcccaaga	gcgagaaaaga	180
ggcattacta	ttcaatcagc	tgctgttaca	tttgattgga	aagggttatag	agtcaatcta	240
attgatacac	caggtcatgt	ggactttacc	ttggagggtg	agcgggtgcct	aagagtgttg	300
gatgggtgcag	tggctgtatt	tgatgcctct	gctgggtgat	aggcccagac	tctcacagta	360
tggaggcaag	ctgataaaca	caatatacct	cgaatctgtt	ttttaaaca	gatggacaaa	420
actggagcaa	gctttaagta	tgcagttgaa	agcatcagag	agaagttaaa	ggcaaaagcct	480
ttgctttttac	agttaccaat	tgggtgaagcc	aaaactttca	aaggagtggg	ggatgtagta	540
atgaaagaaa	aacttctttg	gaattgcaat	tcaaatgatg	gaaaagactt	tgagagaaaag	600
cccctcttgg	aaatgaatga	tcctgaattg	ctgaaggaaa	caactgaagc	aaggaatgcc	660
ttaattgaca	agttgcagat	ttggatgatg	aatttgctga	cttggtttta	gaagaattan	720
tgag						724

<210> 304

<211> 741

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(741)

<223> n = A,T,C or G

<400> 304

gnnnnnngaa	agtntacgac	tcactatagg	gcgaattggg	ccctctagat	gcattgctcga	60
gcggcccgcca	gtgtgatgga	tatctgcaga	attcgccctt	agcgtgggtcg	cggccgaggt	120
actttataaa	tggaaatttc	ttctacttgt	atccatttcc	cggggcttat	ggaccatttc	180
atactctcca	tatttagaat	caaaggttcc	tttctgaaga	gaccttaatt	ttaaggtaaa	240
acgtgggtcca	agttcctgaa	ttcccacttt	cttttctactc	ctgaatatgt	atctgtgaaa	300
tctgaagaat	atgtaatccc	gttgattgtg	gaatgtggca	acctgccttc	cgataaattg	360

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aggattatga ggaaagagag atgcaaacat acgtccaatt gaatgaccca gccgtgttgt 420
aaaattattc agaattattt caggtatgtg ttctgtgggg tccttgccctc ttctcttaat 480
ttctttacga agacgaacac tgctcatttt aaaatgagca gttggggccat ttggcaagtg 540
actcaaaata agtccatttg gggtttttacg atcttcatta ataacaatca ggtctgtgaa 600
atctcttgcg atgcactgtg gaataatttt ttccagaacc agcctcttct gtaataaaca 660
tgtgagtttg gtataactgt gganagctgt cacagagtcg taccagtata ccaaccatac 720
caactntgtt gtagagcaaa a 741

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<210> 305

<211> 719

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (719)

<223> n = A, T, C or G

<400> 305

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gmnnttncaa ntggggccctc tngatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg cccttagcgt ggtcgcgccc gaggtacttt ataaatggaa ttttcttcta 120
cttgatcca tttcccgggg cttatggacc cattcatact ctccatattt agaatcaaag 180
gttcctttct gaagagacct taattttaag gtaaacgtg gtccaagttc ctgaattccc 240
actttctttt cactcctgaa tatgtatctg tgaaatctga agaatatgta atcccgttga 300
ttgtggaatg tggcaacctg ccttcggata aattgaggat tatgaggaaa gagagatgca 360
aacatacgtc caattgaatg acccagccgt gttgtaaaat tattcagaat tatttcaggt 420
atgtgttctg tggggtcctt gcctcttctc ttaatttctt tacgaagacg aacactgctc 480
attttaaaat gagcagttgg gccatttggc aagtgactca aaataagtc atttgggggt 540
ttacgatctt cattaataac aatcaggtct gtgaaatctc ttgcgatgca ctgtgggata 600
attttttcag agccagtcct cttctgtaat aaacatgtga agtttggtat actgtggana 660
gctgtcacag agtcgacagt ataccaacca taccaactct gttgnagaac anaacccat 719

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<210> 306

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (746)

<223> n = A, T, C or G

<400> 306

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gmnnttgaa agtatacgac tcactatagg gcgaattggg ccctctagat gcatgctcga 60
gcggccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gtactccagc ccaggcgaca gagtgagact cagtctcaaa aaaaaaaaaa atttgggcaa 180
gttatagtc atctcatagt gttgttagga ctaatttctt catgtgctta gaaaaatgcc 240
tggcagatag gaaatggtca atattattat tattgataag atgaccattt tggagtttag 300
aaaaccattt tcaatgccta tgaaataaca actccataag ccattccctt aaatccagta 360
gactgaattc tcacaagtc tcactactca tcatttctac atcctgctga tttacaaata 420
cttcttcata ccatggttta tgtctttgct taatatcaag gaggatggat tccatggtag 480
agccaaactc aatgatacta cgagtctcat tttggtaagt ataagcaaag ccagcagcat 540
gcatggccac caatgaacct tttgaatcaa acacagggga gcccggaagc cccaaagaaa 600
aattcagtg cataggaat cacatcangg ttgtgaacta ttttctggaa acttctttga 660
gtatacatat ggacatactc tggactttct gcttttttag actgaacacg ttcttgacat 720
ttctttgctc gctgacctg anggat 746

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<210> 307

<211> 725

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (725)
 <223> n = A,T,C or G

<400> 307

gnnnnntnncn	antggccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	ccctttcgag	cggccgcccc	ggcagggtact	ccagcccagg	cgacagagtg	120
agactcagtc	tcaaaaaaaaa	aaaaaatttg	ggcaagttat	agtccatctc	atagtgttgt	180
taggactaat	ttcttcatgt	gcttagaaaa	atgcctggca	gataggaaat	ggtcaatatt	240
attattattg	ataagatgac	cattttggag	tttagaaaac	cattttcaat	gcctatgaaa	300
taacaactcc	ataagccatt	cccttaaatc	cagtagactg	aattctcaca	agtcctcatc	360
actcatcatt	tctacatcct	gctgatttac	aaatacttct	tcataccatg	gtttatgtct	420
ttgcttaata	tcaaggagga	tggattccat	ggtagagcca	aactcaatga	tactacgagt	480
ctcatttttg	taagtataag	caaagccagc	agcatgcatg	gccaccaatg	aaccttttga	540
atcaaacaca	ggggagccgg	aagccccaac	gaaaatttca	gtgtcatagg	taatcacatc	600
anggttgtga	actattttct	ggaaacttct	ttgagtatac	atatggacat	actctggact	660
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acang						725

<210> 308
 <211> 744
 <212> DNA
 <213> Homo Sapien
 <220>
 <221> misc_feature
 <222> (1) ... (744)
 <223> n = A,T,C or G

<400> 308

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gcggccgcca	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gtacgcgggg	tgacaagtag	caacatggct	tgggtcccct	gtgcagcatc	agcttatgct	180
gccacaagtc	agtttgcacc	ctaggtaccc	aggagctagt	atccttagat	ctttctatcg	240
ctaacttaat	tctcttcggt	atcttatctga	ccctctaact	ccatgtetaa	cttgcatata	300
aaaaaaaaaa	attctttaca	gtcaacccaa	gcttaacatg	gactcagggt	ccccagcagc	360
cttaatttgt	tttggttaaca	tctgttcctt	ctttttcagc	tctcctagag	tatttctgag	420
tggttgtgtc	atcetaatctt	agtattcctt	taattacaaa	ttgacctcac	agcttgaggt	480
ttcctgtgtc	tatttctgtg	gactacctgt	gctcctttgc	ttcccctccc	ctcgcataat	540
aactatatta	agaaattttt	tttggccttg	agttggctgg	aaaaaaaata	taaaatttaa	600
aaaaaaaaan	nnnnnnnnna	aaaaaaaaag	tacctnggcc	gggaccacgc	taanggcgaa	660
ttccagcaca	ctggcgcccg	ttactaagtg	gatccgaact	cgggtaccaac	ttggcgtaat	720
catggcatag	ctggttcctg	ngga				744

<210> 309
 <211> 746
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (746)
 <223> n = A,T,C or G

<400> 309

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gcagaattcg	ccctttcgag	cggccgcccc	ggcagggtacg	cggggtgaca	agtagcaaca	120
tggttgtggg	cccctgtgca	gcatcagctt	atgctgccac	aagtcagttt	gcaccctagg	180
taccaggag	ctagtatcct	tagatctttc	tatcgctaac	ttattctctt	tcgttattta	240
tctgaccttc	taactccatg	tctaacttgc	attaaaaaaa	aaaaaattct	ttacagtcaa	300
cccaagctta	acatggactc	aggttcccca	gcagccttaa	tttgttttgt	taacatctgt	360

tccttctttt	tcagctctcc	tagagtattt	ctgagtgttg	tgttcaccta	atcttagtat	420
tcttttaatt	acaaattgac	ctcacagctt	gagggttcc	gtgtcttatt	ctgtggacta	480
cctgtgctcc	tttgcttccc	ctccccctgc	ataataacta	tattaagaaa	tttttttttg	540
ccttgagttg	gctggaaaaa	aaatataaaa	tttaaaaaaa	aaannnnnnn	nnnnaaaaaa	600
aaaagtcctt	ggccgggacc	acnctaangg	cgaaattcca	gcacaactgg	gcggncctgt	660
actaaggga	atccnaact	tnggnaccn	aaacttgggc	gtaaaacaat	gggncaataa	720
gctggnnncc	ctggnggtga	aaaatt				746

<210> 310

<211> 751

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(751)

<223> n = A,T,C or G

<400> 310

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gtacttaatg	cctttctcct	cctggacatc	agagagaaca	cctgggtatt	ctggcagaag	180
tttatatttc	tccaaatcaa	ttcttgga	aaacgtgtca	ctttcaaagt	cttgcattgat	240
ccttgctaca	aatagtttaa	gatggcctgg	gtgattcatg	gcttccttat	aaacagaact	300
gccaccaact	atccagacca	tgtctacttt	atttgctaat	tctggttggt	cagtaagttt	360
taaggcatca	tctagacttc	tggaaagaaa	atgagctcct	tgtggaggtt	ccttgagttc	420
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ccaggtcttc	ttaccataa	tcaccagatt	ctgnttacct	tctactgaag	aagttgtggt	540
cattctctgg	aaatatctga	attcattcct	gagcggtggc	caaggcangt	ncccggtctt	600
gccgatgccc	atgttctggg	acacagcgac	gatgcagttt	agcgaaccaa	ceatgacagc	660
aaccgggga	accttcgagc	ccggttcgnt	acaagcccc	gcgtaccttn	gggcccngaa	720
cacgcttaag	ggcgaattnc	aacacactgg	c			751

<210> 311

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 311

gnnttncnan	tgggccctct	agatgcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	cctttcgagc	ggccgcccgg	gcaggtactt	aatgcctttc	tcctcctgga	120
catcagagag	aacacctggg	tattctggca	gaagtttata	tttctccaaa	tcaatttctg	180
gaaaaaacgt	gtcactttca	aagtcttgca	tgatccttgt	cacaaatagt	ttaagatggc	240
ctgggtgatt	catggcttcc	ttataaacag	aactgccacc	aactatccag	accatgtcta	300
ctttatttgc	taattctggt	tgttcagtaa	gttttaaggc	atcatctaga	cttctggaaa	360
gaaaatgagc	tccttgtgga	ggttccttga	gttctctgct	gagaactaaa	ttaattctac	420
cctttaaagg	tcgattcttc	tcaggaatgg	agaaccagg	cttcttacc	ataatcacca	480
gattctgttt	accttctact	gaagaggttg	tggtcattct	ctggaaatat	ctgaattcat	540
tcctgagcgg	tggccaaggc	angtccccgt	tcttgccgat	gcccattgtc	tgggacacag	600
cgacgatgca	gtttancgaa	ccacccatga	cagcagcggg	aggaccttcg	agcccgtctg	660
ttacaagccc	ccgcgtacct	tnggccgcga	acaccttang	gcgaaattca	acacactggc	720
ggcc						724

<210> 312

<211> 738

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(738)

<223> n = A,T,C or G

<400> 312

nnnnnttgaa	gnctacnact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggccgccag	tgtgatggat	atctgcagaa	ttcgcccttt	gagcggccgc	ccgggcaggt	120
acgcgggggg	cagacatggc	gacattgaca	gtgggtccagc	cgctcaccct	ggacagagat	180
gttgcaagag	caattgaatt	actggaaaaa	ctacaggaat	ctggagaagt	acgttcacta	240
attatctaca	aggacaaaat	cagttgtatt	tacaaaactc	tacttcagtg	tttgttttag	300
tttttttttt	actgaaactt	gtttttgtga	atactctgtg	cttagaatta	aatatcactt	360
tcttatgaac	aacataactt	cttcagattg	tgtatatgaa	aacattagca	agtcttggtt	420
tttctatgaa	gcaaacacaa	ttgggtgacaa	aggttgtcaa	tcatttcttc	aaaattataa	480
tgcagttcta	atgggtcagca	tatttttgata	ttaaatttaa	agatcacctc	tctgcatttg	540
tttttaaatt	atgctaatac	accacacatt	atgttggtat	gttttggtct	gtcctcggcc	600
gcgaccacgc	ttanggcgaa	ttccagcaca	ctggcggggc	gttactagtg	gatecgagct	660
cgggtccaagc	tggcgtaatc	atgggtcatag	ctgggttcctg	tgtgaaatgg	tatccggtac	720
aattcccaca	catacgan					738

<210> 313

<211> 720

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(720)

<223> n = A,T,C or G

<400> 313

gnnttncaan	tgggccctct	agatgcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	cctttgagcg	gccgcccggg	caggtacgcg	gggggcagac	atggcgacat	120
tgacagtggg	ccagccgctc	accctggaca	gagatgttgc	aagagcaatt	gaattactgg	180
aaaaactaca	ggaatctgga	gaagtacgtt	cactaattat	ctacaaggac	aaaatcagtt	240
gtattttacaa	aactctactt	cagtgtttgt	tttagttttt	tttttactga	aacttgtttt	300
tgtgaatact	ctgtgcttag	aattaaatat	cactttctta	tgaacaacat	aacttcttca	360
gattgtgtat	atgaaaacat	tagcaagtct	tgttttttct	atgaagcaaa	cacaattggg	420
gacaaaagggt	gtcaatcatt	tcttcaaaat	tataatgcag	ttctaattgg	cagcatattt	480
tgatattaaa	tttaaagatc	acctctctgc	atttgttttt	aaattatgct	aatacaccac	540
acattatggt	ggtatgtttt	gntctgtacc	tcggccgcga	ccacgctaan	ggcgaattca	600
ncacactggc	ngncgttact	agtggatccg	agctcggacc	aaacttggcg	taatcatngn	660
catagctggg	tcctgtgtga	aaatgggtatc	cgttacaatt	tcacacacat	acgagccgga	720

<210> 314

<211> 740

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

<400> 314

gnnnnttnaa	gnctacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtgggtcg	ggccgaggta	120
cttttttttt	tttttttttt	ttagtgtttt	ctactttatt	aaacatcaaa	gcccaaatag	180
atgttccttg	tggaggagga	cttaaggaca	ctaggggagg	agaaagggac	acctgggaag	240
agaatcacac	cacagagacc	aatcttcaca	aaaagggtcc	aatattgatt	tctagggagg	300
agcagggcat	ggtcagctca	aatttggtga	taacgtcagg	atgaaggacc	ccaagcttcc	360

cgacgctttg	acccctggca	aagatctctg	cacatcgccc	ggggaagaaa	gcaggccctt	420
ctgatgcttt	gatcacatat	cccccttgt	cttcaccagg	aggcacatcg	agcaactgca	480
taattctgtc	cagcagccca	tgaatgatct	caaaccagg	attcttgntg	taataaacag	540
cactgagatg	tctgtagttt	tttgaccta	catctgnatt	agaatctttt	attacaatgt	600
cagagatttc	aaacagtttc	agtgggaagg	gcattcttacg	attgctgcta	tggcttcagg	660
angccaggaa	gaagggtagt	gcgtgccacc	tgaaattcac	tggttagga	tacttatgtg	720
gactggcttt	gttgcaaaan					740

<210> 315

<211> 722

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (722)

<223> n = A, T, C or G

<400> 315

gnnnnnnnnn	nnnnnnntnn	atgctgctcg	agcgcccgcc	agtgtgatgg	atatctgcag	60
aattgccect	tagcgtggtc	gcggccgagg	tacttttttt	tttttttttt	ttttagtgt	120
ttctacttta	ttaaacatca	aagcccaa	agatgttccc	tgtggaggag	gacttaagga	180
cactagggga	ggagaaagg	acacctggga	agagaatcac	accacagaga	ccaatcttca	240
caaaaagggt	ccaatattga	tttctaggga	ggagcagggc	atggtcagct	caaatttggt	300
gataacgtca	ggatgaagga	ccccaaagct	cccgacgctt	tgacctctgg	caaagatctc	360
tgcacatcgc	ccggggaaga	aagcaggccc	ttctgatgct	ttgatcacat	atccccctt	420
gtcttcacca	ggaggcacat	cgagcaactg	cataattctg	tccagcagcc	catgaatgat	480
ctcaaaccce	ggattcttgt	tgtaataaac	agcactgaga	tgtctgtagt	tttttgcacc	540
tacatctgna	ttagaatctt	ttattacaat	gtcagagatt	tcaaacagtt	tcagtggaaa	600
ggggcatctt	acgatttgct	gctatggnet	tcangaggnc	angaaaaagg	gtantgcntg	660
ccctgaaat	tcantgggtt	taggattacc	tatgtggact	ggctttgntg	caaaaaaatn	720
cn						722

<210> 316

<211> 753

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (753)

<223> n = A, T, C or G

<400> 316

gnnnnnttna	nagtnnnnac	gactcactat	agggcggaac	netctncatg	catgctcnan	60
cggnncnncan	ngtgaatgat	atntgctgan	ttcgccctta	ccntngcntn	ggccgaggcg	120
cagntcccac	gtntngctcc	ncactncnnn	accgcagggg	cncngacncn	gaccngngnn	180
ncnnngngag	tnccncagca	ctacttgagg	nggctanagg	gaagnttgga	aataaaattc	240
caaannttg	agtaaaagca	atncangcgn	ngattatata	tgntnnccct	ttctgacacn	300
ncctagagcg	tagggggaac	atngntntat	ctgtgggana	tnaacaagat	ggagtcccaa	360
agactttaac	aaagntat	cttaannatc	cnctacaatn	nanaatncat	tattcatatn	420
tactntatgc	tgnnagttag	tatntatgct	ngtcctattt	aaacttgnga	gaanaagtgg	480
tntcccttga	tacattnaga	aatatggggg	ctatcttgnt	ncattgtggg	gggtggggcan	540
aagganaatn	aatgcangat	gaccctgttg	aangaatctt	aacatggcca	acanggggac	600
ngtttacagt	cgattaccag	gaaangcaag	ccttgggggt	tctactgcng	gtgggggctg	660
tcatgaactt	naaaatccan	agnctatacc	agggaaaaagt	ggttangaccc	aattgaaang	720
ctntccaccc	tttcttttnn	tttgttccng	cnc			753

<210> 317

<211> 893

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (893)

<223> n = A,T,C or G

<400> 317

gtgnnnntn	cnaaatggnc	cntttnaatg	cctncctcga	gcgggccgcc	agtgtgatgg	60
atntntaatt	cgnccttagc	gtggtcgcgg	ccgnggtacn	aangaaataa	aantnacagt	120
ntcaaagaac	caaantaagt	cggacacaaa	cccctgtcac	cannagagtc	ccatanacat	180
aannnggtg	ntgtcaagna	ggattnaaat	taactttaac	aacnttntat	ataatgctac	240
attccccaat	taataaagga	nagttcacat	atacanctaa	ntgntaattg	tggaaanaag	300
ggtgaaantn	tgcatannta	atannaaana	atgctgaang	cttttncata	nnattnnctt	360
aaaaatncac	ttncnatgca	gcantangtn	tacatgctta	atntatcntg	cnagtgattn	420
ntatgcttgt	cctacatgac	ntaccttgaa	caactgggac	tncccagatt	catactgaaa	480
tatggggncg	ntaantatnt	tgggancggg	annacntgaa	tcctcaaagg	atannnnntn	540
tccagntgga	tgaaacnna	nattnaaang	gatattntna	accatnggan	cgaatggnncg	600
nnntctttt	tcaatntnnc	gnagaagntnc	cnnttnnata	ncccgngggc	cncattgngg	660
ggnttatntn	ncaatcaann	ccnngagntg	tntntcntt	cntcnaccgc	ataacctttt	720
gccataggga	acctnttttn	aacctctttg	gnnttatngg	aaanaannnn	ntttttaaat	780
tcnccaaaat	ngggaaaaan	aaccttntc	actctaaaaa	nttanccnta	gacctanttn	840
tngngncata	tttgntaaac	nctatggnc	ctcnagnggg	gnnctgggnc	nnn	893

<210> 318

<211> 744

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (744)

<223> n = A,T,C or G

<400> 318

gnnnngattg	tatacgactc	actatagggc	gaattgggcc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcaggt	120
acctcattag	taattgtttt	gttgtttcat	ttttttctaa	tgtctcccct	ctaccagctc	180
acctgagata	acagaatgaa	aatggaagga	cagccagatt	tctcctttgc	tctctgctca	240
ttctctctga	agtctaggtt	acccattttg	gggacccatt	ataggcaata	aacacagttc	300
ccaaagcatt	tggacagttt	cttggttgtg	tttagaatgg	ttttcctttt	tcttagcctt	360
ttcttgcaaa	aggctcactc	agtcccttgc	ttgctcagtg	gactgggctc	cccagggcct	420
aggctgcctt	cttttccatg	tcccacccat	gagccctcca	ctggacagct	cagtaagcct	480
ggcccttcat	tctgcgctgt	gttcttcttc	tgtgaaaatc	caatacctct	tacctctct	540
gcatgcaaa	attctcaagg	attgtcagac	ttcaaacgta	acagcagaac	caccagaagg	600
tcctataaat	gcagtagtga	ccttctcaag	ctgtcanggc	tttaaatagg	atttgggatt	660
taatgctatg	tattttttaa	ggaaagaaat	aagagttgct	agtttttaaa	atgcatgtct	720
tttaccatt	canaatctgg	cccc				744

<210> 319

<211> 720

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (720)

<223> n = A,T,C or G

<400> 319

ngnttttaac	cttcttanng	ctgctcgagc	ggccgccagt	gtgatggata	tctgcagaat	60
tcgccctttc	gagcggccgc	ccgggcaggt	acctcattag	taattgtttt	gttgtttcat	120
ttttttctaa	tgtctcccct	ctaccagctc	acctgagata	acagaatgaa	aatggaagga	180

cagccagatt	tctcctttgc	tctctgctca	ttctctctga	agtctaggtt	acccattttg	240
gggacccatt	ataggcaata	aacacagttc	ccaaagcatt	tggacagttt	cttgttgtgt	300
tttagaatgg	ttttcctttt	tcttagcctt	ttcctgcaaa	aggctcactc	agtcccttgc	360
ttgctcagtg	gactgggctc	cccagggcct	aggctgcctt	cttttccatg	tcccaccctc	420
gagccctcca	ctggacagct	cagtaagcct	ggcccttcat	tctgcgctgt	gttcttcctc	480
tgtgaaaatc	caatacctct	tacctcctct	gcatgcaaa	attctcaagg	attgtcagac	540
ttcaaacgta	acagcagaac	caccagaagg	tcctataaat	gcagtagtga	ccttctcaag	600
ctgtcanggc	tttaaataagg	atttgggatt	taatgctatg	tatttttaaa	ggaaagaaat	660
agagttgcta	gttttaaaaa	tgcattgtctt	ttaaccaatt	cagaatctgg	ccccnaactt	720

<210> 320

<211> 694

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (694)

<223> n = A,T,C or G

<400> 320

atgctcgagc	ggncggcant	gtgatggatn	tctgcagaat	tcgccctttc	gagcggccgc	60
ccgggcaggt	actattccgg	atatacaaga	tacttgggag	atgttgatga	tggagacaca	120
gtgacagatt	tcatggccca	agagcgagaa	agaggcntta	ctattcaatc	agctgctgtt	180
acatttgatt	ggaaagggtta	tagagtcaat	ctaattgata	caccaggtca	tgtggacttt	240
accttggagg	ttgagcgggtg	cctaagagtg	ttggatgggtg	cantggctgt	atttgatgcc	300
tctgctgggtg	tagaggccca	gactntcaca	gtatggaggc	aagctgataa	acacaatata	360
cctcgaatct	gttttttaaa	caagatggac	aaaactggag	caagctttaa	gtatgcagtt	420
gaaagcatca	gagagaagtt	aaaggcaaa	gctttgcttt	tacagttacc	aattgggtgaa	480
gccaaaactt	tcaaaggagt	ggtggatgta	gtaatgaang	aaaaaacttct	ttggggaattg	540
caattcaana	tgatggaaaa	gactttgaga	gaaagccctt	cttggaaatg	aatgatcctg	600
aattgctgaa	ggaaacaact	gaacaaggaa	tgccttaatt	gaacaaagtt	gcagatttgg	660
atgatgaatt	tgctgacttg	gttttaagaa	gaat			694

<210> 321

<211> 781

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (781)

<223> n = A,T,C or G

<400> 321

gngttnacna	ntggggccctc	tngatgctgc	tcgagcggcc	gncagtgatga	tggatntctg	60
cagaatncgc	cctncggggcg	gccgnccggg	cagggtactat	nccggatata	caagatcact	120
gggagatgtt	gatgatggag	acncagngac	agatttcatg	gccccagagc	gagaaagagg	180
cnttactatn	caatcagctg	ctgttacatt	cgatttgaaa	ggttatngag	tcaatctaata	240
tgatncacca	ngtnatgttg	actttacctt	ggagggttgag	cggtgcctaa	nagtgttgga	300
tggtgcanng	gctgtatttg	atgcctctgc	tggtgtagag	gcccagactc	tcacagtatg	360
gatgcaagct	gataaacaca	atatacctng	aatctgtgtt	ttaaacaaga	tggacaaaaac	420
tggagcaagc	tttaaagtnt	gcagttgaaa	gcatcagaga	gangttnaag	gcanagcctt	480
tgctttttaca	gtttcccaat	tgggtgaaac	ccaaaacttt	tcaaaggagg	ttggttggtat	540
tgtaagtaat	gaaaggaaaa	acttcttttg	gaaantggca	atttcaanat	gatttgaaaa	600
ngactttttg	gagaaaaagcc	ccttctttgg	aaaatngaaa	tgatncctga	aatttgcngt	660
aaanngaaaa	cnaacntgna	atccaangga	atncccttt	aanttggaac	aaaggnttgc	720
naanttttng	attgaatnga	atttgncong	cntttnggtt	ttangaaaga	aatttaaagng	780
g						781

<210> 322

<211> 744

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (744)

<223> n = A,T,C or G

<400> 322

gnnntganag	tatcgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccccccagt	gtgatggata	tctgcagaat	tcgcccttcc	gagcggccgc	ccgggcaggt	120
acgcggggac	tgggtttttc	tccttttgta	gccttttccct	ttagtctcct	cttcccgggtg	180
gttggtaaaa	agaggtgaat	tgacagccta	tggtgaagac	actgtgcttt	tctcaagaag	240
gacatccaaa	cagcaagtct	acttctttct	ctttaacgat	gtgctcat	tcaccaagaa	300
gaagagtga	gaaagttaca	acgtcaatga	ttattcctta	agagatcagc	tattggtgga	360
atcttgtagc	aatgaagagc	ttaattcttc	tccagggaag	aacagctcca	caatgctcta	420
ttcaagacag	agctctgccca	gtcacctctt	tactctgaca	gtccttagta	accacgcgaa	480
tgagaaagt	gagatgctac	taggagctga	gacgcagagc	gagcgagccc	gctggataac	540
tgccctggga	cacagcagcg	ggaagccgcc	tgcagaccga	acctnactga	cccaggtgga	600
aatcgtagg	tcatttactg	ctaagcagcc	agatgaactc	ttcctgcagt	ggctgacgtc	660
gtcctcatct	atcaacgtgt	cagcgatggc	tggtatgaag	gggaacgact	tcgagatgga	720
gaaagaagnt	gggttcctat	ggaa				744

<210> 323

<211> 723

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (723)

<223> n = A,T,C or G

<400> 323

gtgtttcaan	cggtcctcta	gatgctgctc	gagcggccgc	cagtgtgatg	gatatctgca	60
gaattcgccc	tttcgagcgg	ccgcccgggc	aggtacgcgg	ggactgggtt	tttctccttt	120
tgtagccttt	tccttttagtc	tcctcttccc	gggtggttgg	aaaaagaggt	gaattgacag	180
cctatgttga	agacactgtg	cttttctcaa	gaaggacatc	caaacagcaa	gtctacttct	240
ttctctttaa	cgatgtgctc	attatcacca	agaagaagag	tgaagaaagt	tacaacgtca	300
atgattattc	cttaagagat	cagctattgg	tggaaatctt	tgacaatgaa	gagcttaatt	360
cttctccagg	gaagaacagc	tccacaatgc	tctattcaag	acagagctct	gccagtcacc	420
tctttactct	gacagtcctt	agtaaccacg	cgaatgagaa	agtggagatg	ctactaggag	480
ctgagacgca	gagcgagcga	gcccgcctgga	taactgccct	gggacacagc	agcgggaagc	540
cgctgcagac	cgaacctcac	tgaccaggt	ggaaatcggt	aggtcattta	ctgctaagca	600
gccagatgaa	ctcttctg	angtggctga	cgctgcctc	atctatcaac	gtgtcancga	660
tggtggtatg	aaggggaacg	actacnagat	ggagaaagaa	gctgggttcc	tatggaatgt	720
gcc						723

<210> 324

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (746)

<223> n = A,T,C or G

<400> 324

gggnttgaag	ncncgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccccccagt	gtgatggata	tctgcagaat	tcgcccttag	cgtaggtcgcg	gccgaggtac	120
cttgagatct	gagcaactgt	gttaatgaag	taatagcaat	ggtccacagt	gaaagatgtg	180

ttgggggtttg	caaaacaagc	attccgtcac	ctctttaata	atgtcacaga	cttttttaaa	240
agagaggcta	tcaagttgta	atataatctg	tcattgttta	tttaggaagg	aaggtaaatt	300
tgtgcttgca	cggggatcat	tttgtattat	ttntgcta	acccagttga	agctaaaaag	360
caactatttg	aatcctgtga	attaatttat	aagaatgtta	aacagctntg	gaaatacatg	420
catcttatga	atcatagcct	tatttagcaa	gatcaatgtt	aaagtgttga	tatatggcaa	480
gtatttaaca	atccacagc	gntagtttga	tttcaactgt	gaattgtctt	acagtttttt	540
caaacctagt	gtntctatgg	acacctgtct	tgaattgtac	ccctcagtc	ccaccaaagc	600
atttncaccc	ctttcaaccc	ccaatcagac	cantgctttc	agtgggtattg	gaggacttnt	660
atcacagctt	catnangtgg	tcttggcaca	ggcagntctga	ctngcttngg	aactgggtgct	720
tttgactcc	cttcaanngn	aatant				746

<210> 325

<211> 742

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (742)

<223> n = A,T,C or G

<400> 325

gtgtttcann	cggccctcta	gatgcatgct	cgagcggccc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggcgc	aggtaccttg	agatctgagc	aactgtgtta	120
atgaagtaat	agcaatggtc	cacagtga	gatgtgttgg	ggtttgcaa	acatgcattc	180
cgtcacctct	ttataatgt	cacagacttt	tttaanagag	aggctatcaa	gttgtnatat	240
aatctgtcat	gtattattta	agaaggaagg	taaatntgtg	cttgcacggg	gatcattttg	300
nattattnct	gctnatcccc	agctgaagct	nanaancnac	tnnttgnatc	ctgtgantt	360
atncatanna	atgttanaca	gctntggaaa	tccatgcctc	ttatgaatca	tngccttatt	420
tancangate	aatgttaaag	ntgttgatat	nnggcaagtn	tnaacaat	tnacantgct	480
agtntgattt	caactngaa	ttgntcttacc	gtnttttnaa	acctananga	atntatngac	540
acctnctctn	aatngnnncc	ctcaancacc	acnaaanctt	ttncnnccct	tncaaccccc	600
natcngaccn	cngcattcag	tngnaancng	aangactttc	atcacaactg	gncaanatnt	660
nggacttttg	cgccatgcnn	acctctcttg	nctttngaac	nnggttgctt	tttnggactt	720
tnncctgng	ngataaccac	cn				742

<210> 326

<211> 747

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (747)

<223> n = A,T,C or G

<400> 326

atgnttttaag	tatacgactc	actatagggc	gaattgggccc	ctctagatgc	atgctcgagc	60
ggccgccagc	gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcaggt	120
actgtatcat	tggcagatgt	gacgtcaccg	acaaccagag	tgaagtggcg	gacaaaactg	180
aggattacct	gtggctgaag	ttgaaccaag	tgtgttttga	cgacgatggc	accagctccc	240
cacaagacag	gctcactctc	tcacagttcc	agaagcagtt	gttggaagac	tatggcgagt	300
cccactttac	ggtgaaccag	caacccttcc	tctacttcca	agtctgttcc	ctgacagcgc	360
agtttgaagc	agcagttgccc	tttcttttcc	gcatggagcg	gctgcgctgc	catgctgtcc	420
atgtagcact	ggtgctgttt	gagctgaagc	tgctttttaa	gtcctctgga	cagagtgtctc	480
aactcctcag	ccacgaacct	ggtgaccctt	cttgcttgcg	gcggctgaac	ttcgtgcggc	540
tctcatgct	gtacctcggc	cgngaccacg	ctaaggcgga	attccagcac	actggcggnc	600
gttactagt	gatccgagct	cggtaccaaa	cttggcgtaa	tcatggncat	agctggttcc	660
tgtgtgaaat	ggtatccggt	acaatttcac	acaacatacg	agccgggaag	catnaagtgt	720
naaacctggg	gtgcctnatg	agtgacn				747

<210> 327

<211> 724
 <212> DNA
 <213> Homo Sapien
 <220>
 <221> misc_feature
 <222> (1)...(724)
 <223> n = A,T,C or G

<400> 327

gtnatgaaac	cnttctntng	ngcatgctcg	agcgcccgcc	agtgtgatgg	atatctgcag	60
aattcgccct	ttcgagcggc	cgccccgggca	ggtactgtat	cattggcaga	tgtgacgtca	120
ccgacaacca	gagtgaagtg	gcggacaaaa	ctgaggatta	cctgtggctg	aagttgaacc	180
aagtgtgttt	tgacgacgat	ggcaccagct	ccccacaaga	caggtcact	ctctcacagt	240
tccagaagca	gttgttgaa	gactatggcg	agtcccactt	tacggtgaac	cagcaaccct	300
tcctctactt	ccaagtcctg	ttcctgacag	cgcagtttga	agcagcagtt	gcctttcttt	360
tccgcatgga	gcggctgcgc	tgccatgctg	tccatgtagc	actgggtgctg	tttgagctga	420
agctgctttt	aaagtcctct	ggacagagtg	ctcagctcct	cagccacgag	cctggtgacc	480
ctccttgett	gcggcggtcg	aacttcgtgc	ggctcctcat	gctgtacctc	ggccgcgacc	540
acgctaagg	cgaattccag	cacactggcg	gccgttacta	gtggatccga	gctcgggtacc	600
aagcttggcg	taatcatggt	catagctgtt	tcctgtgtga	aattgtatcc	gctcacaatt	660
ncacacaaca	tacgagccgg	aagcataaag	tgtaaaacct	ggggtgccta	atgagtgaac	720
taan						724

<210> 328
 <211> 747
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(747)
 <223> n = A,T,C or G

<400> 328

tgnntgttag	atacgactca	ctatagggcg	aattgggccc	tctagatgca	tgctcgagcg	60
gcccgccagt	gtgatggata	tctgcagaat	tcgcccttag	cgtggctcg	gccgaggtac	120
tttttttttt	ttttttaaag	acagagtctt	gctctgtcac	ccaggctgga	gtgcagtggc	180
acgatctcgg	ctcactgcaa	gctctgcttc	ccgggttcac	gccattctcc	tgctcagcc	240
tcccagtag	ctgggactac	aggtgcccgc	caccatgccc	ggctgatttc	tttttgatt	300
tttagtagag	acggagtctt	accgtgttag	ccaggatggt	ctcgatctcc	tgacctcgtg	360
atccgcccgc	cttggcctcc	aaagtgtctg	gattacaggt	gtgagctacc	gcgcccggcc	420
tattatcttg	tactttctaa	ctgagccctc	tattttcttt	attttaataa	tatttctccc	480
cacttgagaa	tcacttgtaa	gttcttggtg	ggaattcagt	tgggcaatga	taacttttat	540
gggcaaaaac	attctattat	agtgaacaaa	tgaaaataac	agcgtatttt	caatattttc	600
ttattcctta	aattccactc	ttttaacact	atgcttaacc	acttaatgtg	atgaaatatt	660
cctaaaagtt	aaatgactat	taaagcatat	attggtgcat	gnatatatta	aagtaccgga	720
tactctaaat	aaaaatccac	tggtccn				747

<210> 329
 <211> 725
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(725)
 <223> n = A,T,C or G

<400> 329

gcgtttcaan	tgggcccctct	ngngcatgct	cgagcggccg	ccagtgtgat	ggatatctgc	60
agaattcgcc	cttagcgtgg	tcgcggccga	ggtacttttt	tttttttttt	taaagacaga	120

gtcttgctct	gtcaccag	ctggagtgc	gtggcacgat	ctcggctcac	tgcaagctct	180
gcctcccggg	ttcacgccat	tctcctgcct	cagcctcccg	agtagctggg	actacaggtg	240
cccgccacca	tgcccggctg	atttcttttt	gtatttttag	tagagacgga	gtttcacctg	300
gttagccagg	atggtctcga	tctcctgacc	tcgtgatccg	ccgccttgg	cctccaaagt	360
gctgggatta	cagggtgtgag	ctaccgcgcc	cggcctatta	tcttgtaact	tctaactgag	420
ccctctattt	tctttatttt	aataatattt	ctccccactt	gagaatcact	tgtagttct	480
tggtaggaat	tcagttgggc	aatgataact	tttatgggca	aaaacattct	attatagtga	540
acaaatgaaa	ataacagcgt	attttcaata	ttttcttatt	ccttaaattc	cactctttta	600
acactatgct	taaccactta	atgtgatgaa	atattcctaa	aagttaaagt	actattaaag	660
catatattgg	tgcattgtata	tattaagtag	cccgatctct	naataaaaat	ccactgggtac	720
agata						725

<210> 330

<211> 741

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(741)

<223> n = A,T,C or G

<400> 330

gnnntganag	atacgactca	ctatagggcg	aattgggccc	tctagatgca	tgctcgagcg	60
gcccggcagt	gtgatggata	tctgcagaat	tcgcccttag	cgtggctcgcg	gccgaggtac	120
tttttttttt	tttttttttt	tttttttttt	ggaagttaa	tttactcaca	gttcaacatg	180
gctggggagg	cctcaggaaa	tttacaatta	taacagaagg	caaaggggaa	gccagatacc	240
ttcttcacaa	ggtggcagga	aggagaagag	ccgagagaag	gcggaagaat	cccttataaa	300
accatcagat	ctcgtgagaa	ctcacttgct	atcaggagaa	cagcatgggg	gaaccgcccc	360
caggattcaa	tgacctncac	ctggtctctc	ccttgacacg	tgaggattat	ggggattaca	420
attccagatg	agatttgggt	ggggacacaa	agccaaacca	tatcaactgt	gactaccttg	480
ggtaagggcc	atccaggcag	aggcaggggg	aacattcttg	gcaaaggcct	tggggcaggg	540
gcctggtatg	ttcagatagc	ancaagtagg	ccagantggc	cggaggggag	taagtgtggg	600
gaggccagtg	ganagatgag	ggtaggggaag	ggatggatca	gatcatgcag	ggccccgggg	660
gccacaggaa	ngacctnagc	atttactgca	agtaangtgg	gaaccatcga	atgtctaagc	720
naggaggaat	ccctgtgact	c				741

<210> 331

<211> 727

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(727)

<223> n = A,T,C or G

<400> 331

gtnnnnncgan	ngggccctct	agatgcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggactttt	tttttttttt	tttttttttt	120
tttttttgaa	gtttaattta	ctcacagttc	aacatggctg	gggaggcctc	aggaaattta	180
caattataac	agaaggcaaa	ggggaagcca	gataccttct	tcacaagggtg	gcaggaagga	240
gaagagccga	gagaaggcgg	agaatccct	tataaaacca	tcagatctcg	tgagaactca	300
cttgctatca	ggagaacagc	atgggggaac	cgccccagg	attcaatgac	ctccacctgg	360
tctctccctt	gacacgtgag	gattatgggg	attacaattc	cagatgagat	ttgggtgggg	420
acacaaagcc	aaaccatata	aactgtgact	accttgggta	agggccatcc	aggcagaggc	480
agggggaaca	ttctgggcaa	aggccttggg	gcaggggcct	ggtatgttca	gatagcagca	540
agtaggccag	antggccgga	ggggagtaag	tgtggggagg	ccagtggaaa	aatganggta	600
gggaaaggga	tggatcagat	catgcagggc	cccggggggc	acangaagga	cctnacattt	660
actgcaagta	angtgggagc	catcgaatgt	tctaagcana	ngangaatcc	ctgngactca	720
ngtgtn						727

<210> 332
<211> 734
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 332
gnntganagt atacgactca ctatagggcg aattggggccc tctagatgca tgctcgagcg 60
gcccgccagt gtgatggata tctgcagaat tcgccctttc gagcggccgc ccgggcaggt 120
acccttctcg cttttgccat tagccaagga tagaagctgc agtggtatta attttgatat 180
aatctttcaa accagcttca tgtggcttcc cttttctttg ttcaagatga gggccaggag 240
gggaaacatc acacctgccc taaacctgt tccctggaggc cagcatttga tctgttgcaa 300
gcccctcttt ctgtccctc ttccctacct gcctcccatg actttgctcc tcacactttt 360
ggaacatgc cttccggggg ggcccatctc ttctggccgt ccttgtctct gggccacttg 420
gagtgtgtga taaatcagtc aagctgttga agtctcagga gtctctggta gcctgcagaa 480
gtaagcctca tcatcagagc ctttccctcaa aactggagtc ccaaatgtca tcagggtttg 540
nttttttttc aaccactaag aacctctctg cttttaactc tagaatttgg gcttggacca 600
gatctaacat cttgaatact ctgccctcta gaccttcacc ttaatggaan gtggatccca 660
nganggtgta atggacatca agccactcgc ggcagcatgg agctatacta agcatcctta 720
nggtctgcct ctcn 734

<210> 333
<211> 710
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 333
ntgggcccctc tngngctgct cgagcggccg ccagtgtgat ggatatctgc agaattcgcc 60
ctttcgagcg gccgcccggg caggtacctt tctcgctttt gccattagcc aaggatagaa 120
gctgcagtgg tattaatttt gatataatct ttcaaaccag cttcatgtgg cttccctttt 180
ctttgttcaa gatgagggcc aggaggggaa acatcacacc tgccctaaac cctgttctctg 240
gaggtcagca tttgatctgt tgcaagcccc tctttctgtc cctcttctct accctgcctc 300
ccatgacttt gctcctcaca cttttggaac catgccttcc gggggggccc atctcttctg 360
gccgtccttg tctctgggcc acttggagtg tgtgataaat cagtcaagct gttgaagtct 420
caggagtctc tggtagcctg cagaagtaag cctcatcatc agagcctttc ctcaaaactg 480
gagtcceaaa tgtcatcagg ttttgttttt ttttcagcca ctaagaacct ctctgctttt 540
aactctagaa tttgggcttg gaccagatct aacatcttga atactctgcc ctctagagcc 600
ttcagcctta atggaagggt ggatccaang anggtgtaat ggaacatcaa gccactcgcg 660
gcagcatgga gctatactaa gcatacctta nggtctgcct cttcagcatt 710

<210> 334
<211> 2051
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(2051)
<223> n = A,T,C or G

<400> 334
gcccttgcct cagcctaccc agtagctggt gatggccatc cttttataaa tgcaacgtcc 60
ttcgttctctg ttaagtcagt ggggaggaag gccttttctc tcttcagtct aataatcaac 120

tggtcactat	tcacaatagc	aacatcatgg	gtggaacct	tgtgtccatc	aacagatgat	180
tagattttta	aatgtgcata	tataccatgg	aatacatacg	caaccatcaa	aaataatgaa	240
atcacatctt	ttgcagcaat	atggatggaa	ctggaagccc	ttatcgtaag	tgaaatgact	300
cagagacaga	aagtcagaaa	ctgcatgttc	tcatttggaa	actgaaaatc	acacacacat	360
aaatctaata	aagacatggg	tactttatct	tcaaaacact	catatgttgc	aaaaaacaca	420
tagaaaaata	aagtttgggt	ggggtgctga	ctaaacttca	agtcacagac	ttttatgtga	480
cagattggag	cagggtttgt	tatgcatgta	gagaacccaa	actaatttat	taaacaggat	540
agaaacaggc	tgtctgggtg	aaatggttct	gagaaccatc	caattcacct	gtcagatgct	600
gatagactag	ctcttcagat	gtttttctac	cagttcagag	atgggttaat	gactagtctc	660
aatggggaaa	aagcaagatg	gattcacaaa	ccaagtaatt	ttaaacaaag	acactttttt	720
ttttttttgc	aacacaatat	acatcacagt	gaaatgtgta	atccttgcaa	attgcaagtt	780
gaaagaatta	aattcagagg	aggggagaga	aagagtactc	agtagggact	gagcactaaa	840
tgcttatttt	aaaagaaatg	taaagagcag	aaagcaattc	aggctaccct	gcctttttgtg	900
ctggctagta	ctccggtcgg	tgtcagcagc	acgtggcatt	gaacattgca	atgtggagcc	960
caaaccacag	aaaatggggg	gaaattggcc	aactttctat	taacttatgt	tggcaatttt	1020
gccaccaaca	gtaagctggc	ccttctaata	aaagaaaatt	gaaaggtttc	tcactaaacg	1080
gaattaagta	gtggagtcaa	gagactccca	ggcctcagcg	tacctatta	gtaattgttt	1140
tggtgtttca	tttttttcta	atgtctcccc	tctaccagct	cacctgagat	aacagaatga	1200
aaatggaagg	acagccagat	ttctcctttg	ctctctgctc	attctctctg	aagtctaggt	1260
tacccatttt	ggggacccat	tataggcaat	aaacacagtt	cccaaagcat	ttggacagtt	1320
tcttgtttgt	ttttagaatg	gttttctctt	ttcttagcct	tttctgcaa	aaggctcact	1380
cagtcccttg	cttgcctcag	ggactgggct	ccccagggcc	taggctgctt	tcttttccat	1440
gtcccaccca	tgagccctcc	actggacagc	tcagtaagcc	tggcccttca	ttctgctctg	1500
tggtcttctt	ctgtgaaaat	ccaatacctc	ttacctcttc	tgcattgcaa	gattctcaag	1560
gattgtcaga	cttcaaactg	aacagcagaa	ccaccagaag	gtcctataaa	tgcagtatgt	1620
accttctcaa	gctgtcaggt	ctttaaatag	gatttgggag	ttaatgctat	gtatttttaa	1680
aggaaagaaa	taagagttgc	tagtwttaaa	aatgcatgtc	ttttagccaa	ttcagaatct	1740
gcccccaaac	tttttttaaa	agtcaagaca	gataaagett	tggggagacg	gaaaaaaaaa	1800
aaaaaaaaaa	aacaagtacc	tcggccgcga	ccacgctaag	ggcgaattcc	agcacactgg	1860
cggccgttac	tagtgggttc	nanncccggt	acnaaneett	gggggtttta	caagggncaa	1920
ancngyttnc	cggggnntna	aattgttacc	cgcnaaaaaa	tccanaaaaa	natncgaacc	1980
cggaaancca	taaaanttnn	aancccnngn	ggcnaagggt	agnngnnnaa	cccnaataaa	2040
tggnntggnc	c					2051

<210> 335

<211> 1312

<212> DNA

<213> Homo sapien

<400> 335

acctagaaaa	cagaaacttg	agtagacatg	gtaatgacca	gaaaaggcta	tctttatata	60
tttcttttgc	tacgcttcaa	attcatgtca	cctaaaagtt	gtgaagtgca	caaaacaaat	120
ctacttaact	gaaaattatt	ttcaatgaat	gggatgttta	gaactctgtg	aggggtttta	180
aggtcttttc	gaatagcaaa	ttctaattgag	gcttttttaa	gttggcaatt	taaactcata	240
caagaaataa	aaactcacca	gtgtggctgg	gcagaatata	tatattttct	caaataattgt	300
ttgtttgttt	tttccctgca	ctgtatccat	gggtcccatga	tgaaactggt	atattgtctga	360
tatatatttt	ggaatatgtg	ggccaacttc	ctttccactc	aacatatgga	ttggtagttt	420
aaaataattc	ctttctatta	agcaaatgtg	tggctaaagg	acattttaat	agcccattaa	480
accaatgaga	tgacaatgtg	ttaccctcag	agaaagctta	atttttggag	taatcaatta	540
cacatattcac	agaatgtctc	atgagaacat	ttttggctag	gtctaccaat	ttatcatgca	600
aataattata	gattttcatt	tgaggcaaa	atgctgatcc	atcattagta	acatggtcac	660
aaataatcat	ttattttatt	tttgtttaaca	tctgtcttct	ctgtggggaa	acttactata	720
tgctctacgt	ttattttaatt	taaaaagtca	attggttatt	ctgaattttt	aaaaataaca	780
taaaactggt	gttctaaatc	acagcacctg	cttttctttt	tttagtgaaa	ttatataagc	840
atttagagaa	tgaaagtgtg	agacttgttg	tttctggctc	ctttttactg	tttgaagcc	900
tactcgtcat	gatattccac	aatggtgcac	ttgcctttta	atgctcttat	agatatcttc	960
aaacttgctt	acatatatac	gcctttgttg	gagtgggcta	ccatcatcag	gaatgatgtc	1020
atttgtttct	tcaaactcct	ttattatacc	aaaaaagtga	cagactccac	agtctgatca	1080
gttttgagaa	aatatgttaa	cattttcaat	tatctcactt	tctagaatca	aaatagtctg	1140
atgttttttt	ttcggcactc	agtgtaaaga	acaaagaact	gaatacagtg	ggocccagaag	1200
agaaatatgc	ctcatcattt	ttattagctt	tgggaactgtg	gacaagtcac	tcaacctagt	1260
tttctcattt	tgaaatgggt	tggtgtggga	attaaaaaaaa	aaaaaaaaaa	gt	1312

<210> 336
 <211> 787
 <212> DNA
 <213> Homo sapien

<400> 336
 acagccatga aattggtgct actcatagaa agtcttagta tagtttggtt taaacatttt 60
 aaaattgcaa ataatatag atagataata tcatgatgag aagggtcacgg gaagcctgga 120
 gatttcaggg tgctctttca taattggagc gagaatcatg taacagttaa gaaactaaac 180
 tcttgagcct tcatagtctt tgctttctcc ccattttatt atctgatatt atataccctc 240
 ttttaattata gactggactg aaatatattta tttttgtttt attataaaaa atcctactcg 300
 tctttaacat gttctcttaa agagtgtttc atatatataat actttccccc caaaatataa 360
 agaggctaac cactatagta ttgaaagatt gaaagaaaga cctagggtgt ctaaaaccaa 420
 atttaaaggc tcagttctaa gaggagttaa aatgcttctt ttgtaagcac tttaaacttc 480
 atcttttaac attgatgaga atattataaa gaattcacia cagcagttac atggaggtag 540
 aaaagagtgt tgagaagaag gaggtgtgatt gcaacaaata caaagaaact attgagatgt 600
 aacaaagacg tgcaattacc tatgaatggg taaaccagtt atatatatttg ctttcacagc 660
 atgagattat ttttaatttg aattggttta ccatgtaatg acacttccat tttaaagatt 720
 ttatgcatgt aaccttaata ctctcaaggc ttcagactt cagagaggta gctcatactt 780
 tcattgt 787

<210> 337
 <211> 772
 <212> DNA
 <213> Homo sapien

<400> 337
 acatcagtg tcatatttatt atttcttaca ctgtcttcat gacttacaca taatattttg 60
 ctagttttaa aacataagat gtgataataa tctaaacaga ccaaaggaaa taaatgaata 120
 tgattaaaaa agacacagaga ataagccctg tctgatggaa agcataacaa agcaggtaga 180
 acaactgtca ggaatgcttg atccaataaa gctagggttg tgatccacaa cacttcagca 240
 ttttaatgtg atttttgatg tttgcttttt gcaatgggtga ttctcagttg cctccctctc 300
 gtgtctttac aagctgaaat caagtgaagc tacttctgac tttttctaaa acttaaacc 360
 aacatgaagg tctgcgtatt ctttcacatg tgacgctatg tggcactttt ccatgatgca 420
 acagcagcgg gtctctagct aagctacagc agcagctcta agaggcagag gaccctgaaa 480
 tgaggctgaa agaaagaata gtccataact gacatcaggc aggtctgtgt tgtaagcaca 540
 gaaaggaggc tcacggcggc atggactcag gccaggtcac actattgttg gagaacacgg 600
 agcacagtg tcagctggaa aggggcccgc tcaggagaca aaataggcac gagaggaaac 660
 cgaaaaattg acatatgtga ctatccttgt agaaatgtat aaagggttggt attattttgc 720
 ttatcgagtt ataataaagt tattctaaaa atgtttatct aaagtattat gt 772

<210> 338
 <211> 1383
 <212> DNA
 <213> Homo sapien

<400> 338
 ttactcacta tagggctcga ggggcccgc gggcaggtgt aaaaataaaa tgacagtttg 60
 aacatacaaa acccacccca ttctataga gcttagtact acactacccc ctcccaactt 120
 tagcctccac atatagtaat gtgcttgga cacaataaac acttcataaa ttgtgctgaa 180
 tgaaatcatt tccatgagtg tttatggatt ttgagttcat ttgtacctt tacctaaaat 240
 tctagccact ttaatttgga gagtttccag agcaaaggac cttttaccta aaattctagc 300
 cactttaatt tggagagttt ccagagcaaa gggcacagat ccaggcata acaacgttt 360
 gcgtatacag caaccaatat ctgtcaacc caagaaagtt cctccattga tacctagtag 420
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